Friedland

SA5

6 Zone Communicating Wirefree Alarm System

Installation & Operating Manual

FOREWORD

All devices in this wirefree Alarm System are designed and manufactured to provide a high standard of security protection and long, reliable service.

The system is designed for ease of installation using only conventional domestic tools. However, it is essential that the installer reads and fully understands the advice and procedures contained in this manual and plans the system before proceeding with the installation.

During installation, it is important that the procedures described in this manual are followed in sequence.

This manual should be retained in a safe place for future reference.

No radio operating licence is required for this equipment.

IMPORTANT: All devices, with the exception of the External Solar Siren are suitable for mounting in dry interior locations only.

DECLARATION

Novar ED&S hereby declares that this wirefree alarm system is in compliance with the essential requirements and other relevant provisions of the Radio and Telecommunications Terminal Equipment (R&TTE) directive, 1999/5/EC.

Tools and Equipment Required:	
No.0 Philips Screwdriver	3mm Drill Bit
No.1 Philips Screwdriver	Drill
No.2 Philips Screwdriver	Small Spirit Level
5 & 6mm Masonry Drill Bits	Bradawl

DEVICE RANGE

The quoted range of the system devices (see component specification on page 51) is measured in ideal conditions. Any solid object (e.g. walls, ceilings, reinforced PVC doors etc.) placed between the transmitter and receiver device will reduce the transmission range of the devices.

The amount by which the range will be reduced is dependant upon the nature of the barrier. e.g.

Wall Type	**Range Reduction**
Dry-lined partition wall:	10-30%
Single layer brick wall:	20-40%
Double layer brick wall:	30-70%
Metal panel/radiator:	90-100%

Note: The effect on the range of multiple walls is cumulative. e.g. if there are two brick walls in the way, the range will be reduced by up to 40% by each wall.

SYSTEM SECURITY

This system has been designed to both detect intruders and act as a strong deterrent to would-be intruders when installed correctly.

Please remember that given adequate knowledge and time it is possible to overcome any alarm system and we therefore recommend that your Alarm is used in conjunction with good physical protection such as security window and door locks.

All units in the system are encoded to operate together using an 8 bit House Code which is configured by the user/installer to provide the identification code for your installation. The system House Code can be changed at any time by the user.

The system is operated from one or more Remote Control Units and/or the Control Panel. Care should be taken to ensure that any of your Remote Control Units are not lost or the User Access Codes for the Control Panel or System House Code do not become known to other people as this will compromise the security of your system. In either event the system House Code and/or User Access Code should be changed as soon as possible.

IMPORTANT: All devices in your system must be set to the same House Code which must be changed from the factory supplied setting.

SAFETY

Always follow the manufacturers advice when using power tools; steps, ladders etc. and wear suitable protective equipment (e.g. safety goggles) when drilling holes etc.

Before drilling holes in walls, check for hidden electricity cables and water pipes, the use of a cable/ pipe locater maybe advisable if in doubt.

When using ladders, you must follow the ladder manufacturers safety instructions.

The use of ear defenders is advisable when working in close proximity to the Siren due to the high sound level produced by this device.

CONTENTS

KIT CONTENTS 4

INTRODUCTION AND OVERVIEW 5
Multiple Users 5
System Arming 5
Entry/Exit Delay 5
Zones 5
Zone Lockout 6
Quick Set 6
Final Exit Set Zone 6
Walk Through Zone 6
Omit Zone 6
Event Log 6
Chime 6
Voice Dialler 6
Remote Manager 6
Latch Key 6
Answerphone 7
Voice Memo 7
Remote System Control 7
Tamper Protection 7
Jamming Detection 7
Battery Monitoring 7
System House Code 7

PLANNING AND EXTENDING YOUR ALARM SYSTEM 8

REMOTE CONTROL UNIT 9
General Information 9
Configuring the Remote Control 10

CONTROL PANEL 10
Positioning the Control Panel 10
Mounting the Control Panel 11
Configuring the Control Panel House Code 12
Testing the Control Panel & Remote Control 13

PASSIVE INFRA RED (PIR) MOVEMENT DETECTORS 13
Positioning the PIR Detector 13
Installing and Configuring the PIR Detector 14

MAGNETIC CONTACT DETECTORS 16
Positioning the Magnetic Contact Detectors 16
Installing and Configuring the Magnetic Contact Detector 16

EXTERNAL SOLAR SIREN 18
General Information 18
Positioning the Solar Siren 18
Installing and Configuring the Solar Siren 19
Power-up the Solar Siren 20

EXTERNAL CONNECTIONS 21

TESTING THE SYSTEM 21

FACTORY SETTINGS 23
Reset Factory Settings 24

PROGRAMMING 24
User Setup 25
System Setup 27
Zone Setup 30
Voice Dialler Setup 33
Full Arm Setup 35
Part-Arm 1 Setup 36
Part-Arm 2 Setup 37
Time & Date Setup 38
Latch Key Setup 38
Answerphone Setup 39
Remote Manager Setup 40

OPERATING INSTRUCTIONS 41
Arming The System 41
Part-Arming The System: Part-Arm 1 41
Part-Arming The System: Part-Arm 2 41
Disarming the System 41
Quick Set 42
Omit Zone 42
Personal Attack (PA) Alarm 42
Device Tamper 42
Chime 42
Event Log 42
Leaving a Voice Memo Message 43
Replaying and Deleting Messages at the Control Panel 43
Remote Phone Access and Control 43
Siren Service Mode 44
Siren Operating Mode 44
Battery Monitoring 45

MAINTENANCE 46

ALARM RECORD 47

TROUBLE SHOOTING 48

EXTENDING YOUR ALARM SYSTEM 50

COMPONENT SPECIFICATION 51

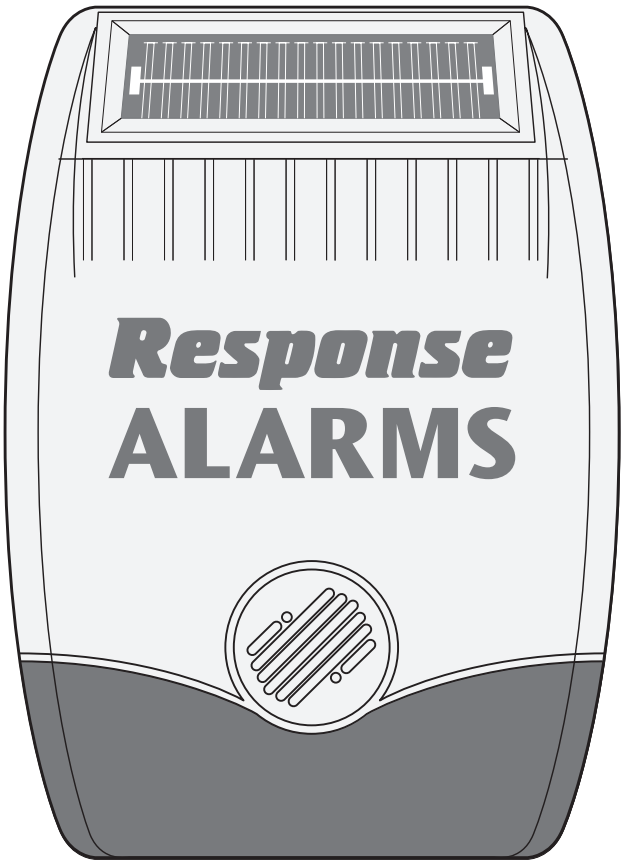
KIT CONTENTS

The Alarm System should contain the following devices:

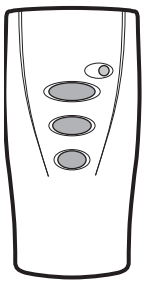
1 x Solar Siren
1 x Control Panel
1 x Remote Control
2 x PIR Movement Detectors
2 x Magnetic Contact Detectors

Also included:

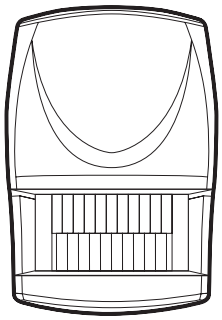
Telephone Connection Lead
Power Supply Adaptor
Installation & Operating Manual
Fixing pack
Batteries



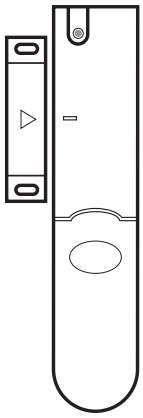
Solar Siren



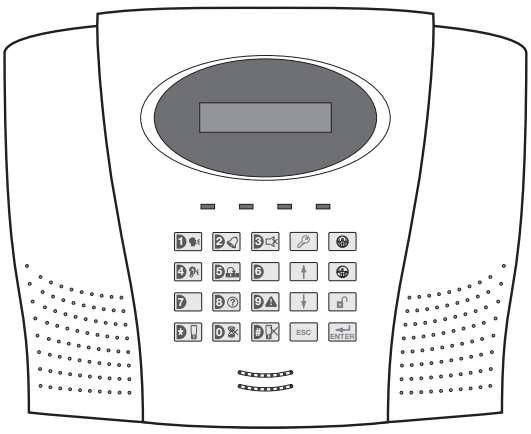
Remote Control



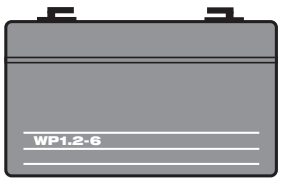
PIR Movement Detector



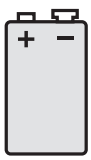
Magnetic Contact Detector



Control Panel



6V/1.2Ahr Sealed lead acid battery
(supplied fitted in Siren)



9V PP3 Alkaline battery
(for Keypad & PIR Detectors)

3V CR2032 Lithium Coin Cell
(for Remote Control and
Magnetic Contact Detectors)

INTRODUCTION AND OVERVIEW

MULTIPLE USERS

The system allows for up to 6 Users and a Master User to be configured. This allows the system Event Log to maintain a record of which users have armed and disarmed the system. Each user will have a different User Access Code. In addition a 4 second voice recorder facility enables the user's name to be recorded for use with the Latch Key facility.

Only the Master User has access to the programming functions and is able to configure the system.

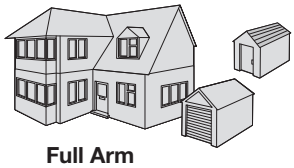
Note: Any Remote Control Units on the system will be recorded as User 6.

SYSTEM ARMING

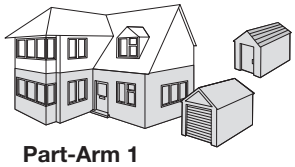
The system has a 'Full Arm' and 2 'Part-Arm' modes. ARM will 'Arm' all zones while the 'Part-Arm' modes will only arm the zones that are enabled for the particular Part-Arm mode.

For example:

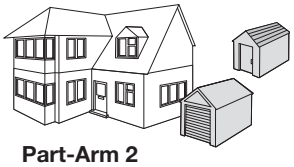
The system could be configured so that during night time, 'Part-Arm 1' would arm only zones protecting the lower floor and outbuildings leaving the upper floor free for movement without triggering the alarm.



Full Arm



Part-Arm 1



Part-Arm 2

During the day while the property is occupied 'Part-Arm 2' could arm only the zones protecting the outbuildings. However, when the property is left un-occupied, the 'Full Arm' mode will arm all zones to protect the entire property, (i.e. upper and lower floors and outbuildings).

ENTRY/EXIT DELAY

When the system is armed with the Exit-Delay enabled, no signal from any detector on an active zone will be able to trigger an alarm until the Exit-Delay has expired. This enables the system to be armed from within the property and allows time for the user to exit the property without triggering an alarm. If the Exit-Delay is disabled then detectors on active zones will immediately be able to trigger an alarm once the system is armed.

The system Exit-Delay may be configured for between 10 to 250 seconds or disabled completely.

If a detector on a zone with its Entry-Delay enabled is triggered, then an alarm will not sound until the Entry-Delay period has expired. This allows time for the user to re-enter the property and disarm the system before an alarm occurs. Generally only the zones on the main entry route to the property will be configured with an Entry-Delay. The remaining zones would be configured with their Entry-Delay disabled allowing them to immediately initiate an alarm the instant a detector on the zone is triggered.

The Entry-Delay for each zone may be configured for between 10 to 250 seconds or disabled completely.

Note: To conserve power and maximise battery life the PIR Detector will only detect movement if there has been no movement detected within the previous 2 minutes. Consequently the PIR Detector will not become active until the protected area has been free from movement for more than 2 minutes.

ZONES

The system incorporates 6 wirefree alarm zones for the connection of the system detectors that are used to independently monitor different areas of the property. In addition to standard intruder protection, each zone may also be configured to operate in 1 of 4 other modes:

- 'PANIC/PA' mode provides 24 hour monitoring of any Personal Attack (PA) switches incorporated into the system.

- '24-hour Intruder' mode provides 24 hour intruder protection for areas/zones where continuous monitoring is required, (e.g. gun lockers).

- 'Fire' mode provides 24 hour monitoring of any Fire/ Smoke detectors incorporated into the system.

- 'Test' mode allows a zone to be monitored while the system is armed. If a detector on a test zone is triggered an entry will be recorded in the Event Log but an alarm will not occur.

In addition there is the facility to connect 4 hard wired zones to the Control Panel, each of which is fully configurable with the same features as the wirefree zones.

ZONE LOCKOUT

If a detector on an active zone is triggered while the system is armed an alarm will sound. After the programmed alarm duration has expired the alarm will stop and the system will automatically reset. Subsequent detectors triggered will again trigger an alarm. If a single zone triggers an alarm more than

3 times then that zone will be 'Locked Out' and any further alarm signals from that zone will be ignored until the system is disarmed.

Note: The 'Zone Lockout' feature can be disabled if required.

QUICK SET

The system may be fully armed in 5 seconds using the quick set facility, overriding the programmed exit-delay. This is useful for setting the system at night when the Exit-Delay warning beep will be silenced after just a few seconds.

FINAL EXIT SET ZONE

Triggering a detector on a Final Exit zone (e.g. front door) during the Exit-Delay, will cause the delay to reset to 5 seconds with the system arming 5 seconds later.

WALK THROUGH ZONE

This feature may be used to temporarily disable detectors on zones covering the route between the main entry door and the Control Panel.

If the system is armed and the property is entered via the "Entry-Door" zone then the setup Entry-Delay will operate as normal. However all "Entry-Route " zones will be disabled to allow free access to the Control Panel to Disarm the system before the Entry-Delay on the "Entry-Door" zone expires and an alarm occurs

If access is gained via any zone that is not configured as the "Entry-Door" then all zones (including those setup as the "Entry-Route" will operate as normal according to their normal configuration.

Notes: The zone configured as the "Entry Door" must be setup with an Entry-Delay time sufficient to reach the Control Panel and Disarm the system.

Zones configured as the "Entry Route" should be setup without an Entry-Delay.

OMIT ZONE

A zone may be temporarily omitted when the system is armed using the Omit feature. When the system is next disarmed any zones set to Omit will be cancelled.

EVENT LOG

The Control Panel incorporates a memory capable of storing the last 50 system events. This enables the user to see which user has Armed/Disarmed the system and if and when any alarms occurred. The time, date and details of the event type will be recorded for each system event.

CHIME

Chime is a low security facility for use when the system is Standby mode. If the Chime feature is ON, and a detector on a zone that has its Chime function enabled is triggered, the internal sounder will produce a low volume warning tone. A typical use of the Chime function would be to warn that a door or particular area has been entered.

VOICE DIALLER

This system incorporates a telephone Voice Dialler that is used to call for help and/or notify the user that the system has been triggered and an alarm has occurred.

If the Voice Dialler is enabled and an alarm occurs the system will call for help using your recorded alarm message and up to 4 telephone numbers. When the Voice Dialler is activated it will call the first enabled number in the dialling sequence and replay the recorded alarm messages for the configured 'PlayTime'. The recipient must acknowledge the message by pressing the [*] button on their telephone keypad. If the call is unanswered or an acknowledgment signal is not received then the next active number in the dialling sequence will be called. The dialler will continue calling each number in turn until either all numbers in the sequence have been dialled the set number of times or the dialling sequence is cancelled by an acknowledged signal from the recipient.

REMOTE MANAGER

The system is designed to interface with the MyGARD Alarm Monitoring Service, which is a state of the art Internet based service. It enables an alarm to generate text/Email messages to up to 6 key holders and can provide Group 4 Patrol & Response to your property.

Novar ED&S recommends monitoring as it increases the level of contact with key holders and provides a greater level of response. The Alarm Monitoring Service is a chargeable independent service provided by MyGARD plc.

(See enclosed leaflet for further details).

LATCH KEY

When the system is Disarmed the Latch Key facility, if enabled, will call the first Latch Key phone number and replay the user message (recorded under user setup) for the set 'Play Time'. The recipient must acknowledge the message by pressing the button on their telephone keypad. If the call is unanswered or an acknowledgment is not received then the second Latch Key phone number will be called. The voice dialler will continue calling each number in turn until each number has been dialled the set number of times or the

sequence is cancelled/acknowledged by the recipient.

For example, the Latch Key facility is useful to inform parents that a child has returned from school and Disarmed the system.

ANSWERPHONE

The Control Panel includes an answerphone facility. The answerphone will record and store a maximum of 6 messages with each message being limited to 30 seconds duration.

Messages may be retrieved either direct from the Control Panel or by dialling into the system from a phone.

VOICE MEMO

In addition it is also possible to record messages at the Control Panel using the 'Voice-Memo' facility. Each voice-memo message is limited to a maximum duration of 30 seconds and counts as an answerphone message.

REMOTE PHONE ACCESS AND CONTROL

It is possible to dial into the system via the connected telephone line to interrogate the system status and to have basic control over the system, (e.g. to Arm and Disarm the system). You may also activate the microphone on the Control Panel to Listen-In to what is happening in the protected property.

Answerphone and Voice-Memo messages may also be accessed remotely.

TAMPER PROTECTION

All system devices (except the Remote Control) incorporate Tamper protection features to protect against unauthorised attempts to interfere with the device.

Any attempt to remove the battery cover from any device (except a Remote Control) or to remove the Solar Siren or Control Panel from the wall will trigger an alarm (unless the system is in Test or Programming modes), even if the system is Disarmed.

JAMMING DETECTION

In order to detect any attempts to illegally jam the radio channel used by your alarm system, a special jamming detection function is incorporated into the Control Panel and Siren. If this feature is enabled, an alarm will be triggered if the radio channel is jammed continuously for more than 30 seconds or if the system is jammed for more than 3 periods of 10 seconds in a 5 minute period. (The Siren will emit a series of rapid beeps for 5 seconds as a pre-alarm warning 10 seconds before a full alarm occurs).

The jamming detection circuit is designed to permanently scan for jamming signals. However, it is possible that it may detect other local radio interference operating legally or illegally on the same frequency. If it is planned to operate the jamming detection feature we recommend that the system is monitored for false jamming alarms for at least 2 weeks prior to leaving the jamming detection function permanently enabled.

Note: The jamming detection features incorporated into the Control Panel and Siren operate independently.

BATTERY MONITORING

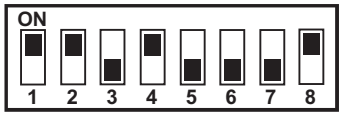
All devices powered by non-rechargeable batteries incorporate a battery level monitoring feature which will warn of a low battery status.

In addition the Control Panel will also indicate a low battery status within any Passive Infra-Red or Magnetic Contact Detector on the system.

The batteries on any device indicating a low battery status should be replaced immediately.

SYSTEM HOUSE CODE

In order to prevent any unauthorised attempt to operate or disarm your system, you must configure your system to accept radio signals only from your own system devices. This is done by setting a series of 8 DIP switches in all devices (except the Control Panel) to the same ON/OFF combination (the House Code) selected by the user/installer. The Control Panel is then programmed to operate only with devices set to this House Code.



The House Code is set up by moving each of the 8 DIP switches in each device to the same randomly selected ON/OFF sequence. When setting the DIP switches, ensure that each switch 'clicks' fully into position. Use the tip of a ballpoint pen or a small screwdriver to move each switch in turn.

IMPORTANT: It is important that the system House Code is always changed to a code other than the factory setting and that all devices are configured with the same House Code in order for the system to operate correctly.

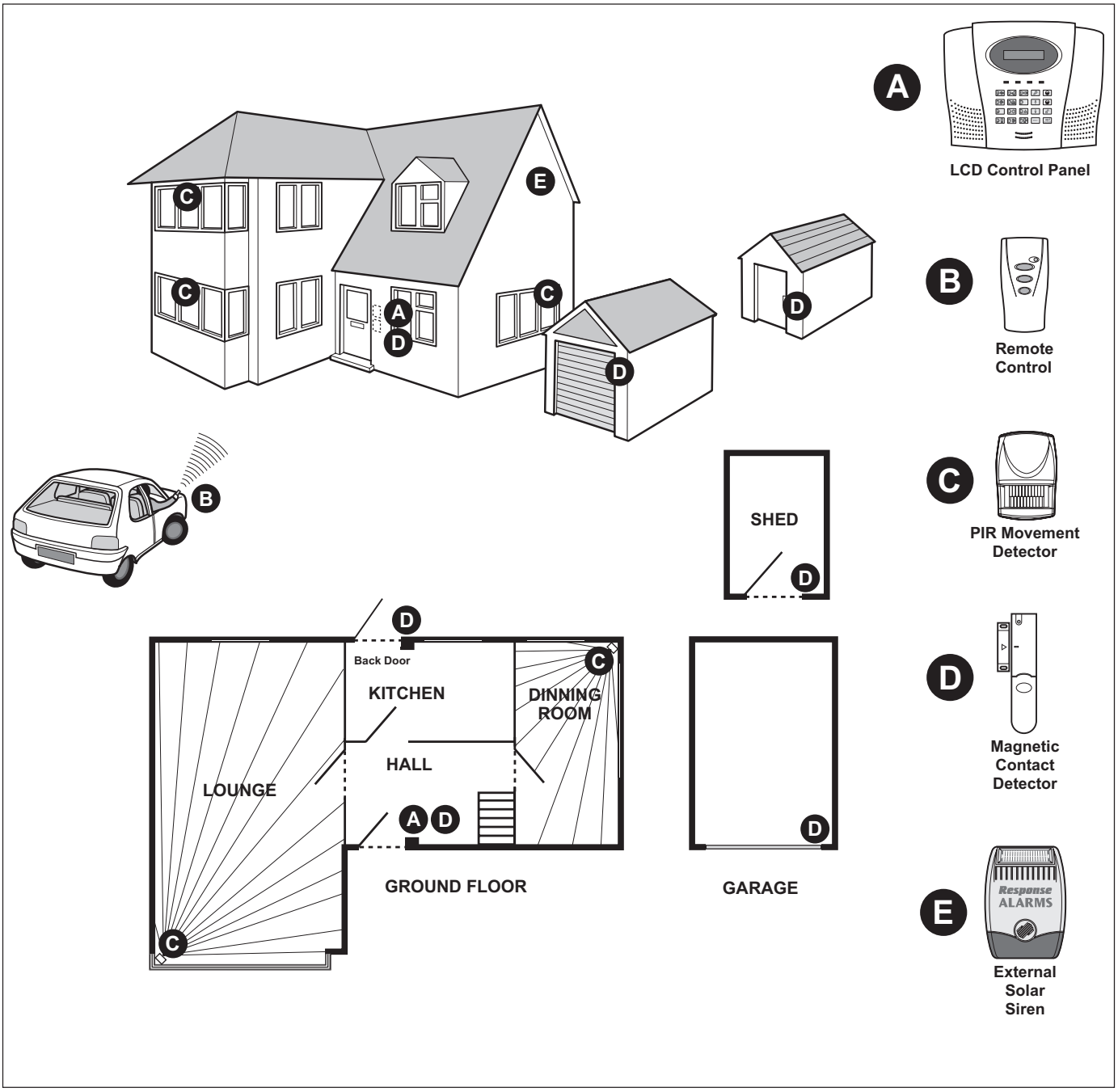
PLANNING AND EXTENDING YOUR ALARM SYSTEM

Before attempting to install your Alarm System it is important to study your security requirements and plan your installation.

PIR Movement Detectors are used to protect the main areas of the property, (e.g. lounge, study, hallway and landing, etc). Magnetic Contact Detectors are used to protect the main access points to the property, (e.g. front door, back door, patio doors etc.). However, they can also be used to protect other vulnerable doors/ windows or access doors to important rooms.

TYPICAL INSTALLATION

The following example below shows typical property incorporating the suggested positions for the Siren, PIR and Magnetic Contact Detectors. Use this as a guide for your installation in conjunction with the detailed positioning requirements for each device provided in the appropriate installation sections in this manual for planning your intruder alarm system.



Typical Installation using only detectors supplied:

1. Place the 1st Magnetic Contact Detector (configured on zone 1) on the front door.

2. Place the 1st PIR Detector (also configured on zone 1) in the hall covering the Control Panel and routes between downstairs rooms.

3. Place the 2nd Magnetic Contact Detector (configured on zone 2) on the back door or patio doors.

4. Place the 2nd PIR Detector either

i) downstairs in the main living room containing most valuables, (set on zone 3),

or

ii) upstairs on the landing covering the access routes between bedrooms and the stairs,(set on zone 5). This will be inactive if Part-Arm 1 is used.

The system may be expanded with additional Detectors, Remote Controls and Keypads to provide even greater protection. However the following rules should be followed:

a. Any detectors covering the main door and the route to the Control Panel should be set on zone 1 only.

b. Any detectors covering other areas of the ground floor should be set on zones 2 to 4 only.

c. Any detectors placed upstairs (which are not required when activating Part-Arm) should be set on zones 5 or 6 only.

Note: All system devices must be configured with the same House Code.

The systems factory settings are pre-configured to provide a basic functional system to suit most typical basic installations:

- Detectors on zone 1 will have a 30 second entry delay period. Detectors on all other zones are configured as INSTANT, (i.e. they have no entry delay).
- The system has a 3 minute alarm duration.
- The Zone Lockout feature is ON so that if any single zone triggers an alarm more than 3 times they will be ignored until the system is next disarmed, (this feature helps protect against continuous false alarms).
- PART-ARM 1 is configured with a 30 second exit delay and operates with detectors on zones 1 to 4 only.
- PART-ARM 2 is OFF.
- All other system features, (e.g. telephone dialler, answerphone, Latch Key, Chime etc.) are OFF and not programmed.

IMPORTANT: All system devices must be set to the same House Code.

As soon as installation is complete

- The default Master User Access Code for the Control Panel should be changed to your own code that only you know.

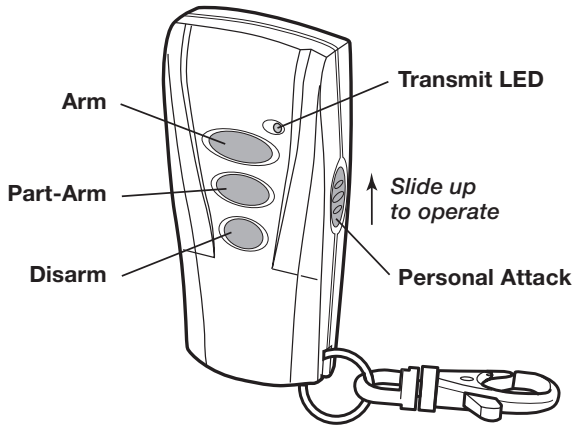
- User Access Codes 1-6 for the Control Panel should be changed to your own codes that only the relevant system user knows.

- The system Time and Date must be configured.

Note: If you wish to change the system configuration away from the above example and factory settings and customise it to your own unique requirements or activate any of the more advanced system features then refer to the Programming section on page 24.

REMOTE CONTROL UNIT

The Remote Control Unit(s) are used to Arm, Part-Arm and Disarm the system.



The Remote Control Unit also incorporates a Personal Attack (PA) switch. Activating the PA switch on the side of the Remote Control will immediately trigger an Alarm (unless the Control Panel is in Test or Program Modes) even if the system is disarmed. The alarm can be cancelled by pressing the 'DISARM' button on the Remote Control or at the Control Panel.

Any number of Remote Control Units can be used with your system, providing they are all coded with the same system House Code.

The Remote Control is powered by a CR2032 type Lithium cell which under normal conditions will have an expected life of approximately 1 year. Under normal battery conditions the Transmit LED on the Remote Control will only illuminate when a button is pressed. However, under low-battery conditions this LED will continue to flash after the button has been released. When this occurs the battery should be replaced as soon as possible.

CONFIGURING THE REMOTE CONTROL

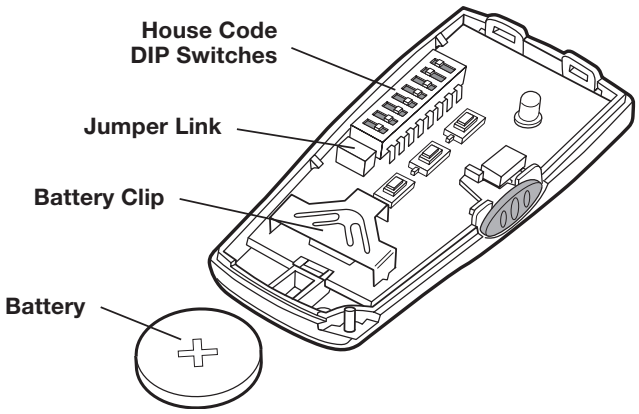
1. Remove the rear cover by undoing the small screw on the rear of the Remote Control and keeping it safe for later .

2. Select and record (in the Alarm Record section of this manual) a random combination of 'ON' and 'OFF' positions for the DIP switches. This will become the system House Code that enables all devices to communicate with the Control Panel.

IMPORTANT: The House Code for your system must be changed from the factory setting.

3. Ensure that the jumper link located immediately below the House Code DIP switches is fitted in position for use with this alarm system.

4. Insert the battery under the clip ensuring that the **+** terminal faces upwards away from the circuit board.



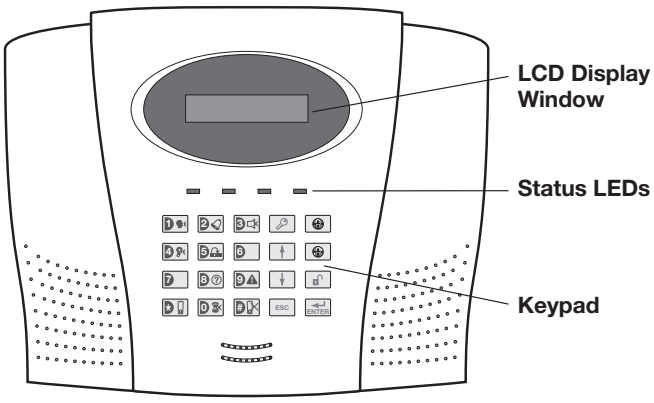
5. Replace the rear cover and fixing screw. Do not over tighten the screw as this could damage the thread.

Testing the Remote Control:

6. Press the button. The Transmit LED should illuminate while the button is pressed and extinguish within 1 second of releasing the button

7. Press the and buttons in turn to ensure that the Transmit LED illuminates as before.

CONTROL PANEL



Outside View of Control Panel

POSITIONING THE CONTROL PANEL

When choosing a suitable location for the Control Panel, the following points should be considered.

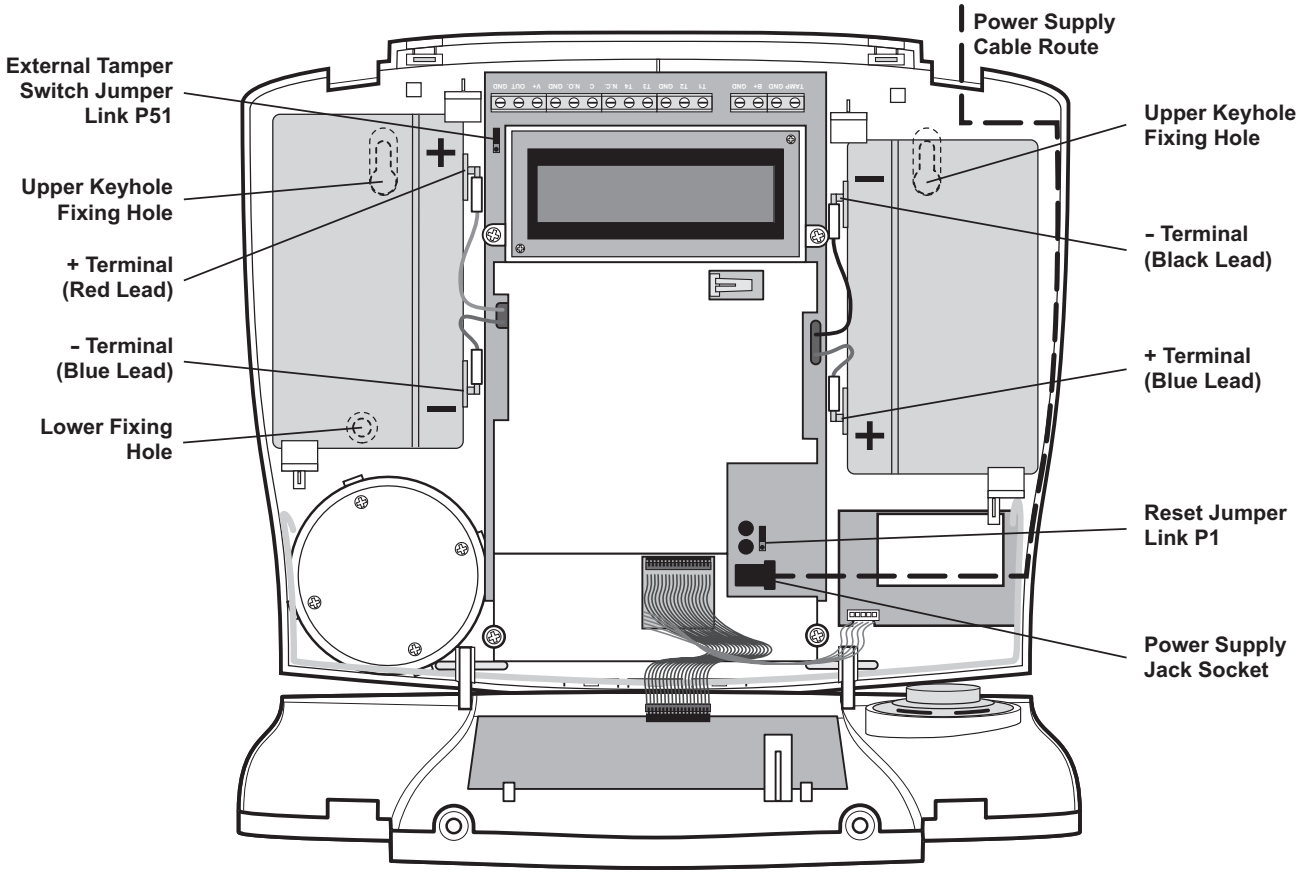
1. The Control Panel should be located in a position out of sight of potential intruders and in a safe location, but easily accessible for system operation and leaving and entering the house within the set time period.

2. The Control Panel should be mounted on a sound flat surface to ensure that the rear tamper switch on the Control Panel is closed when the Panel is mounted. The Control Panel should be mounted at a convenient height of between 1.5 and 2 metres and in a position where it can be seen by you each day.

Note: If small children are in the household, a further consideration should be given to keeping the unit out of their reach.

3. It is recommended that the Control Panel should be positioned such that the Entry/Exit tone (emitted by the Control Panel) can be heard from outside the property.

4. The Control Panel should be mounted within a protected area so that any intruder cannot reach the Control Panel without opening a protected door or passing through an area protected by a PIR Movement Detector when the system is armed.



Inside View of Control Panel

5. The Control Panel must be located within reach of a mains socket.

6. If any of the telephone based functions are to be used then the Control Panel will need connecting to a convenient telephone point.

Note: It is recommended that the telephone connection lead is not extended beyond 10 metres before connecting to a telephone master or secondary outlet.

7. Note: DO NOT fix the Control Panel onto or very close to metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the device.

INSTALLING THE CONTROL PANEL

1. Undo the 2 cover fixing screws on top of the panel and open the cover. The cover is hinged along the bottom edge.

2. Unclip and remove the two back-up batteries on either side of the panel.

3. Hold the Control Panel in position on the wall and mark the positions of the four fixing holes. Remove the panel, drill four 5mm holes and fit the 22mm wall plugs.

Note: The wall plugs supplied with the product are not suitable for plasterboard walls. If mounting the Control Panel onto plasterboard use appropriate wall plugs.

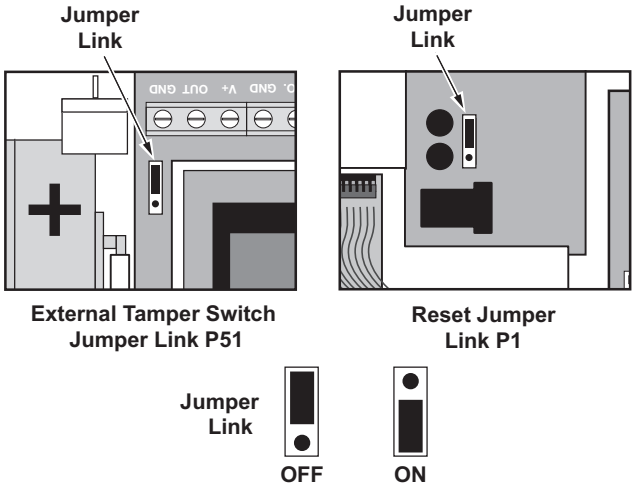
IMPORTANT: Do not drill the fixing holes with the Control Panel in position; as the resulting dust and vibration may damage the Control Panel's internal components and invalidate the guarantee.

4. Fit two 18mm No.4 screws into the top holes until 3mm protrudes from the wall face and hang the Control Panel over these screws using the two keyhole slots in the top corners of the panel casing.

5. Route the cable from the Power Supply Unit up behind and on the right hand side of the Control Panel and connect the plug to the DC power socket in the panel. Ensuring that the cable is not trapped between the panel and the wall.

6. Fix the Panel to the wall using two 18mm No.4 screws in the lower fixing holes in the panel and tighten the upper fixing screws until they just grip the casing. Do not over tighten the fixing screws as this could damage or distort the casing.

7. Ensure that the “Reset” and the “Hard-Wired Siren tamper detect” jumper links are set in the OFF position.



8. Connect battery leads to both back-up batteries and refit batteries.

LEFT Battery: Red lead to the Red (**+**) battery terminal

Blue lead to the Black (**-**) battery terminal

RIGHT Battery: Blue lead to the Red (**+**) battery terminal

Black lead to the Black (**-**) battery terminal

IMPORTANT: Take care when connecting battery leads to the batteries as connecting incorrectly could damage the batteries or the Control Panel.

Note: The Power LED may flash to indicate that the unit is being operated from the back-up batteries and that mains supply is not present.

9. If fitted, remove the plastic film covering the LCD display and on the display window on the cover.

10. Close the lid of the Control Panel and fasten the cover fixing screws.

11. Plug in and switch ON the Power Supply Unit, (the Power LED should illuminate).

12. If required, connect the Control Panel to the telephone line using the cable supplied by inserting small RJ11 plug into socket marked LINE located on the bottom edge of the Control Panel. If the cable supplied is not long enough to reach a suitable phone point then it will need extending using a coupler and extension lead (not supplied).

Note: If the Control Panel Tamper alarm sounds during the installation reset the alarm by pressing

, 1 2 3 4 , ENTER

User Access Code

on the Control Panel.

IMPORTANT! The keys must be pressed firmly and within 3 seconds of each other. If you make a mistake, press ESC and start the sequence again.

CONFIGURING THE CONTROL PANEL HOUSE CODE

With unit in Standby mode (Power LED only illuminated).

1. Press , 1 2 3 4 , ENTER

Master User Access Code

‘**1. USER SETUP**’ will be displayed.

This puts the Control Panel into Programming Mode.

2. Use the ↑ and ↓ buttons to scroll through the menu until ‘**2. SYSTEM SETUP**’ is displayed and press ENTER .

‘**2-1 Learn House Code**’ will be displayed.

3. Press ENTER .

The current House Code setting will be displayed.

4. The new system House Code can be programmed either directly at the Control Panel or via a Remote Control Unit as follows:

At the Control Panel:

Press buttons 1-8 on the Control Panel to configure the display so that the required House Code is displayed on the screen. As each button is pressed the corresponding digit in the House Code will change to the opposite state, (“0” or “1”).

1 = House Code DIP Switch On/Up
0 = House Code DIP Switch Off/Down

Using a Remote Control:

With the required House Code already configure on the Remote Control, press .

The Control Panel will beep twice to acknowledge the signal. The display will change to show the received House Code on the lower line of the display beneath the corresponding DIP switch numbers (1-8).

5. Press ENTER to save the new setting.

6. Press ESC, ESC to return to Standby.

TESTING THE CONTROL PANEL & REMOTE CONTROL

1. Press , 1, 2, 3, 4, ENTER

User Access Code

to put the system into Test mode.

'**TEST MODE – WALK TEST**' will be displayed.

2. Press ENTER to activate Walk Test.

'**Walk Test Waiting…**' will be displayed.

3. Press the buttons on the Remote Control in turn, as each button is pressed the Control Panel will beep and display on the screen the function of the button being pressed.

4. Test the range of the Remote Control by pressing the 'DISARM' button on the Remote Control from in and around the property and from all locations where you plan to install detectors. Check that the Control Panel acknowledges the signal from the Remote Control each time the 'DISARM' button is pressed.

5. Press ESC to return to the top level menu of TEST MODE.

PASSIVE INFRA RED (PIR) MOVEMENT DETECTORS

PIR Detectors detect movement in a protected area by detecting changes in infra-red radiation levels caused for example when a person moves within or across the PIRs detection pattern. If movement is detected an alarm signal will be generated, (if the system is armed). PIR Detectors will also detect animals, so ensure that pets are not permitted access to areas fitted with PIR Movement Detectors when the system is armed.

The Detector incorporates an anti-tamper protection feature to protect against attempts to interfere with the device. If the battery cover is removed, an alarm will immediately occur at any time, (unless the system is in Program or Test Modes).

The Detector also incorporates a sensitivity adjustment feature to compensate for situations where the detector may be affected by environmental changes, (e.g. insects, air temperature, etc.).

To conserve power and maximise battery life the PIR Detector will only detect movement if there has been no movement detected within the previous 2 minutes, (this is known as the detectors "sleep period").

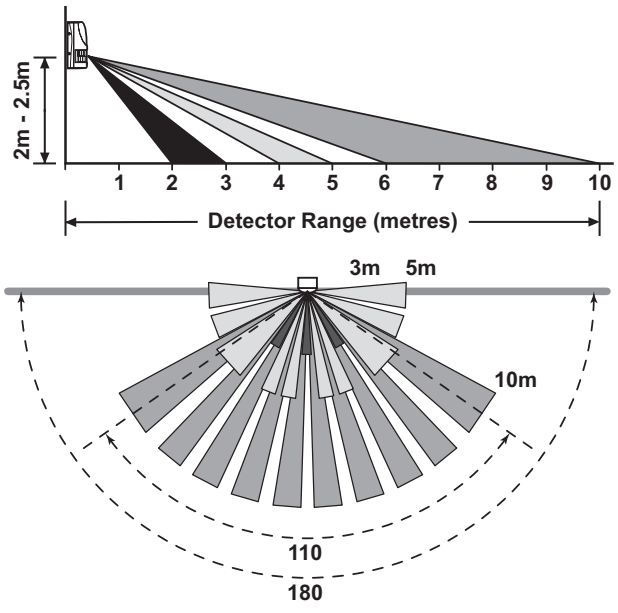
The PIR Detector is powered by a PP3 Alkaline battery which under normal conditions will have an expected life of approximately 1 year. When the battery level drops, with the PIR in normal operation mode and the battery cover fitted, the LED behind the detection window will flash. When this occurs the battery should be replaced as soon as possible. (**Note:** in normal operation, the LED behind the lens will not flash on detection of movement).

Any number of PIR Movement Detectors can be used with your system, providing they are all coded with the system House Code and are mounted within effective radio range of the Control Panel.

POSITIONING THE PIR DETECTOR

The recommended position for a PIR Movement Detector is in the corner of a room mounted at a height between 2 and 2.5 metres. At this height, the detector will have a maximum range of up to 12 metres with a field of view of 110°.

The Position of the Circuit Board inside the PIR can be set to 5 different positions to adjust the range of the detection pattern created by the PIR. Setting the Circuit Board in position 3 will reduce the range to approximately 9 metres, with position 1 providing a range of approximately 6 metres. The recommended position setting for the Circuit Board is in position 5.



Detection Zone Pattern for Circuit Board in Position 5

When deciding upon the mounting position for the detector the following points should be considered to ensure trouble free operation:

1. Do not position the detector facing a window or where it is exposed to or facing direct sunlight. PIR Detectors are not suitable for use in conservatories.

2. Do not position the detector where it is exposed to draughts.

3. Do not position the detector directly above a heat source, (e.g. fire, radiator, boiler, etc.).

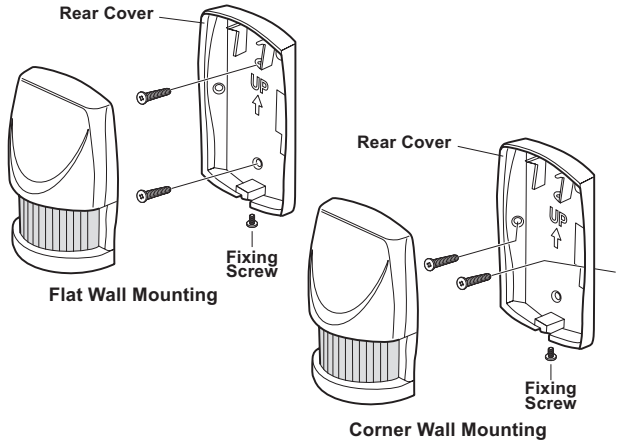
4. Where possible, mount the detector in the corner of the room so that the logical path of an intruder would cut across the fan detection pattern. PIR Detectors respond more effectively to movement across the device than to movement directly towards it.

5. Do not position the detector in a position where it is subject to excessive vibration.

6. Ensure that the position selected for the PIR Detector is within effective range of the Control Panel.

7. Do not fix the PIR Detector onto or very close to metalwork (i.e. radiators, water pipes, etc.) as this could affect the radio range of the device.

Note: When the system is Armed, pets should not be allowed into an area protected by a PIR Detector as their movement could be detected and trigger an alarm.



INSTALLING AND CONFIGURING THE PIR DETECTOR

Ensure that the system is in Test Mode (see page 13).

1. Undo and remove the screw from the bottom edge of the PIR Detector (keep the screw safe for later). Carefully pull the bottom edge of the detector away from the rear cover and slide down to release the top clips.

2. Carefully drill out the required mounting holes in the rear cover using a 3mm drill according to whether the unit is being mounted in a corner or against a flat wall.

3. Using the rear cover as a template, mark the positions of the fixing holes on the wall.

4. Fix the rear cover to the wall using the two 18mm No.4 screws and 22mm wall plugs, (a 5mm hole will be required for the wall plugs). Do not over-tighten the screws as this may distort or damage the cover.

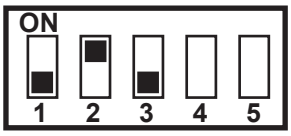
Note: The wall plugs supplied with the product are not suitable for plasterboard walls, if mounting the Detector onto plasterboard use appropriate wall plugs.

5. Configure the House Code for the PIR Detector by setting DIP switches 1-8 of SW2 to the same ON/OFF combination as the House Code DIP switches in all other system devices.

6. Configure the alarm zone which the detector will operate on by setting DIP switches 1-3 of SW3 as follows:

	DIP 1	DIP 2	DIP 3
Zone 1	OFF	OFF	OFF
Zone 2	OFF	OFF	ON
Zone 3	OFF	ON	OFF
Zone 4	OFF	ON	ON
Zone 5	ON	OFF	OFF
Zone 6	ON	OFF	ON

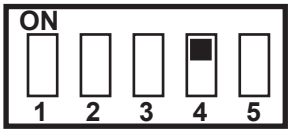
e.g. To configure the detector to operate on zone 3 set DIP switches 1, 2 and 3 of SW3 as follows:



7. DIP switch 4 of SW3 is used to configure the PIR Detector for Walk Test mode, which overrides the 2 minute sleep period and allows the operation of the detector to be checked during installation.

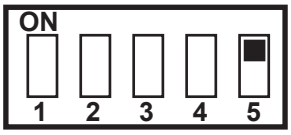
ON = Walk Test mode
OFF = Normal Operation

On initial installation the detector should be configured into Walk-Test mode ready for testing (i.e. with DIP switch 4 of SW3 ON).



8. To select the required sensitivity, set DIP switch 5 of SW3 as follows:

ON = HIGH sensitivity
OFF = LOW sensitivity

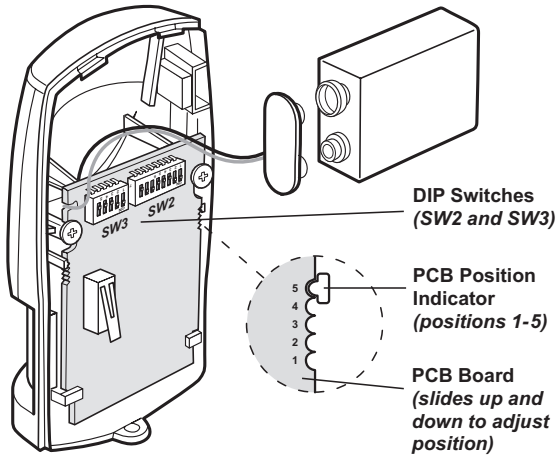


Note: The recommended setting is HIGH. However, in cases of extreme environmental problems or if unexplained false alarms are experienced, it may be necessary to set the sensitivity to LOW. Setting the device to LOW sensitivity will require a greater amount of movement in order to trigger the device.

9. Connect the PP3 Alkaline battery to the battery clip. The LED behind the lens will rapidly flash for approximately 2-3 minutes until the PIR has stabilised. The LED will then stop flashing and turn OFF.

10. Check that the detector Circuit Board is located and set in the correct position to give the detection zone pattern required.

To adjust the PCB position simply slide it up or down ensuring that the location legs are aligned with the required position number marked on the board.



PCB Position	Range
1	6m
3	9m
5	12m

11. To refit the PIR detector to the rear cover, offer the detector up to the rear cover and locate the clips in the top edge into the rear cover. Push the lower edge of the detector into place and refit the fixing screw in the bottom edge of the PIR to secure in position. Do not over-tighten the fixing screws as this may damage the casing.

Testing the PIR Detector:

12. Ensure that the LED indicator has stopped flashing rapidly.

13. Use the ↑ and ↓ buttons to scroll through the menu until '**WALK TEST**' is displayed and press ESC .

'**Walk Test Waiting…**' will be displayed.

14. Walk into and move slowly around the protected area, each time the detector senses movement the LED indicator behind the lens will flash.

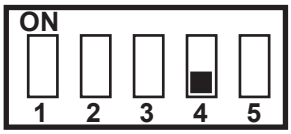
In addition, the Control Panel will beep to indicate that the alarm signal has been received and the identity of the zone that the detector is configured for will be displayed.

15. If necessary remove the detector from the wall and adjust the mounting position of the circuit board within the detector. Repeat step 14 until the detection range is correct for your needs. (In most cases no adjustment will be required).

16. Remove the back cover of the PIR detector. The Control Panel should beep and display "**Accessory Tamper**" to show that the detector's tamper switch has been activated.

17. Press ESC to return to the top level menu of TEST MODE.

18. Reconfigure the PIR Detector for Normal Operation with DIP switch 4 of SW3 OFF and refit in position on the wall.



IMPORTANT: In normal operation, the LED indicator behind the detector lens will not flash on movement detection, (unless the battery is low).

Note: When the detector is fully installed i.e. battery cover fitted and in operating mode; in order to conserve power and maximise battery life the PIR Detector will only detect movement if there has been no movement detected within the previous 2 minutes.

MAGNETIC CONTACT DETECTORS

The Magnetic Contact Set comprises 2 parts; Detector and Magnet. They are designed to be fitted to either doors or windows with the Magnet mounted on the opening part of the door/window and the Detector mounted to the frame.

When the protected door or window is opened and the Magnet is moved away from the Detector an alarm will be triggered, (if the system is Armed).

The Magnetic Contact Detector has the facility to connect an additional wired Magnetic Contact. This must be of a normally closed contact type with the contact being opened in order to generate an alarm condition.

The Magnetic Contact Detector is powered by two CR2032 type Lithium cells which under normal conditions will have an expected of approximately 1 year. Under normal battery conditions the LED on the Detector will not illuminate when the Detector is triggered, (unless the detector is in test mode with the battery cover removed). However, under low-battery conditions this LED will be illuminated for approximately 1 second when the detector is triggered. When this occurs the batteries should be replaced as soon as possible.

Any number of Magnetic Contact Detectors can be used with the system, providing they are all coded with the same system House Code and are mounted within effective radio range of the Control Panel.

POSITIONING THE MAGNETIC CONTACT DETECTORS

The Magnetic Contact Detector is suitable for mounting in dry interior locations only.

Decide which doors and windows are to be protected by fitting Magnetic Contact Detectors, (usually the front and back doors as a minimum will have Magnetic Contact Detectors fitted). However additional detectors may be fitted where required to other more vulnerable doors or windows, (e.g. garage, patio/conservatory doors etc.).

Ensure that the position selected for the Magnetic Contact Detector is within effective range of the Control Panel.

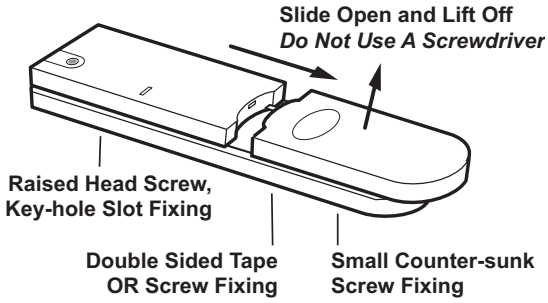
Do not fix the Detector onto or very close to metalwork (i.e. radiators, water pipes, etc.) as this could affect the radio range of the device.

On PVC Door/Window frames, it may be necessary to space the Detector and Magnet away from the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

INSTALLING AND CONFIGURING THE MAGNETIC CONTACT DETECTORS

Ensure that the system is in Test mode (see page 18).

1. Remove the battery cover by sliding and lifting it off. (DO NOT use a screwdriver to lever it off).

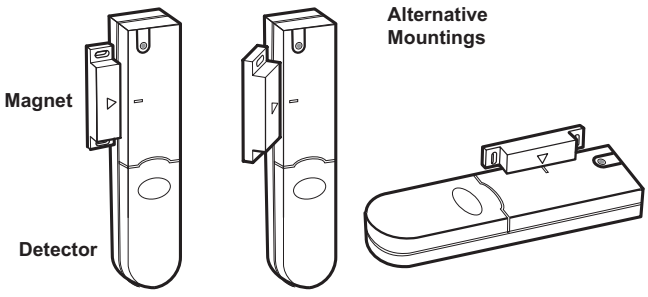


2. The Detector and Magnet should be mounted together along the opening edge of the Window/Door opposite the hinges. Ensure that the parallel gap between the Magnet and Detector is less than 10mm and that the arrow on the magnet is aligned with the mark on the detector.

The Detector should be mounted on the fixed part of the frame and the Magnet on the opening part.

The Detector and Magnet should be mounted using the double sided adhesive pads or screws provided.

Note: If mounting the device using the adhesive pads ensure that the mounting surfaces are clean and dry before mounting.



3. If fixing the detector with screws, first remove the battery holder by carefully tilting up the end and pulling away from the printed circuit board (PCB).

The top of the Detector is secured by hanging the keyhole slot over the head of the 10mm pan head screw. The bottom of the Detector is secured using the 12mm counter-sunk head screw fitted within the battery compartment. Carefully drill out the centre of the fixing screw hole in the battery compartment using a 3mm drill. Fit the Magnet using the two 15mm fixing screws. Do not over tighten the screws as this may distort or damage the casing.

4. If an additional wired Magnetic Contact is required, this should be wired to the terminal block provided in the battery compartment. The wired contact should be connected using a maximum length of 1.5 metres of any of the following:

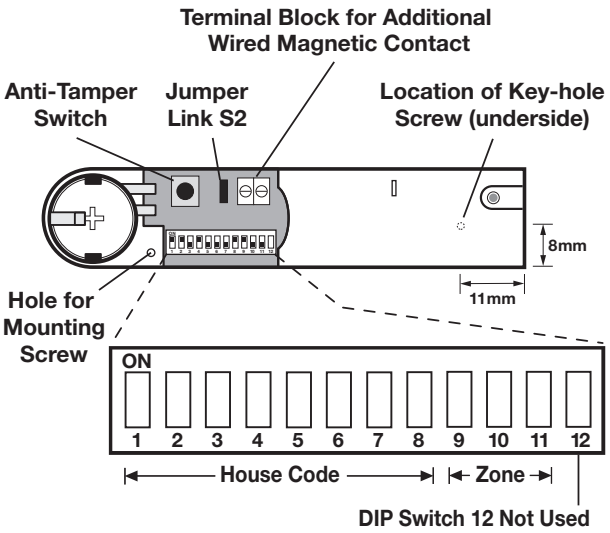
- 6 core alarm cable
- 2 core bell wire (6 x 0.2mm minimum)
- 2 core 24AWG wire

A cable entry cut-out is provided beside the terminal block in the battery cover.

If an additional wired contact is connected to the detector then jumper Link S2 on the Circuit board must be removed.

IMPORTANT: If an additional wired contact is not connected, then the Jumper Link S2 must be fitted for the Detector to operate correctly.

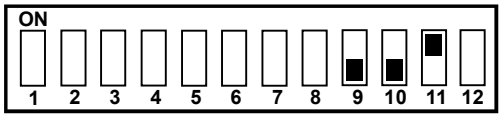
5. Configure the House Code for the Magnetic Contact Detector by setting DIP switches 1-8 to the same ON/OFF combination as the House Code DIP switches in all other system devices.



6. Configure the alarm zone which the detector will operate on with DIP switches 9-11 as follows:

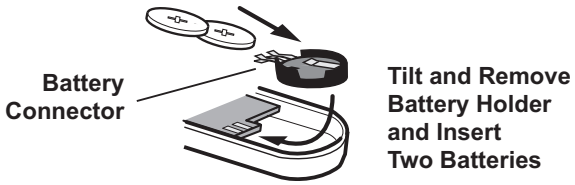
	DIP 9	DIP 10	DIP 11
Zone 1	OFF	OFF	OFF
Zone 2	OFF	OFF	ON
Zone 3	OFF	ON	OFF
Zone 4	OFF	ON	ON
Zone 5	ON	OFF	OFF
Zone 6	ON	OFF	ON

e.g. To configure the detector to operate on zone 2 set DIP switches 9,10 and 11 as follows:



Note: DIP switch 12 is not used.

7. Slide the two batteries supplied into the battery holder, ensuring that the + side is uppermost on each battery as it is installed.



8. If necessary, refit the battery holder into the detector ensuring that the spring clip connectors slide onto either side of the circuit board.

9. Refit the battery cover.

Testing the Magnetic Contact Detector:

10. Use the ↑ and ↓ buttons to scroll through the menu until '**WALK TEST**' is displayed and press ENTER.

'**Walk Test Waiting…**' will be displayed.

11. Remove the battery cover to activate the tamper switch.

As the button is released the LED indicator will illuminate for approximately 1 second to show that the tamper switch has been triggered and a signal is being transmitted.

In addition, the Control Panel will beep to indicate that an alarm signal has been received and '**Accessory**

Tamper' will be displayed.

12. Open the door/window to remove the Magnet from the Detector.

As the Magnet is moved away from the Detector the LED indicator will illuminate for approximately 1 second to show that the Detector has been triggered and a signal is being transmitted.

Note: It does not matter if the LED indicator illuminates as the Magnet is brought towards the Detector.

13. Refit the battery cover.

14. Press **ESC** to return to the top level menu of TEST MODE.

IMPORTANT: With the battery cover fitted the LED indicator will not flash when the door/window is opened, (unless the battery is low).

EXTERNAL SOLAR SIREN

The Siren is encapsulated within a tough polycarbonate housing that also provides full protection against adverse weather conditions.

An LED indicator unit is built into the siren to act as a visible deterrent and indication that the system is active. The LEDs will slowly and alternately flash whether the system is Armed or Disarmed. When the alarm triggers the LEDs will flash rapidly together.

An integral tamper switch provides additional security protection to the Siren and will immediately trigger an alarm should any unauthorised attempt be made to interfere with and remove the siren cover, (unless the Siren is in Service Mode).

The Siren is powered by a rechargeable sealed lead acid battery. A solar panel mounted on the top of the housing charges the battery during daylight hours. During darkness, only a small amount of energy is required to operate the Siren unit. A 9V Alkaline PP3 battery is supplied to boost the initial power to the unit when the system is first activated until the solar panel charges the main battery. (The PP3 battery is only designed to last for a short period until the main rechargeable battery has obtained sufficient charge).

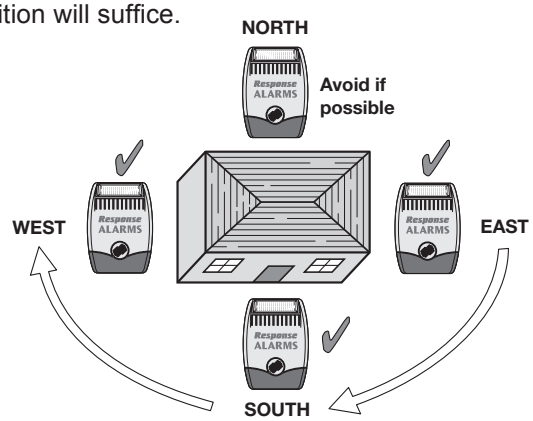
The Siren unit incorporates the installation's Jamming Detection system which will (if activated) generate an alarm if any attempt is made to continuously jam the radio channel used for the system.

POSITIONING THE SOLAR SIREN

The Siren should be located as high as possible in a prominent position on an external wall so that it can be easily seen and heard. The Siren should be mounted on a sound flat surface so that the rear tamper switch is not activated when mounted.

IMPORTANT: Ensure that the tamper switch does not fall into the recess between brick courses as this could prevent the switch from closing and give a permanent tamper signal.

In order to provide the maximum amount of daylight to the solar panel, the Siren should ideally be mounted on a south facing wall. However, an easterly or westerly position will suffice.

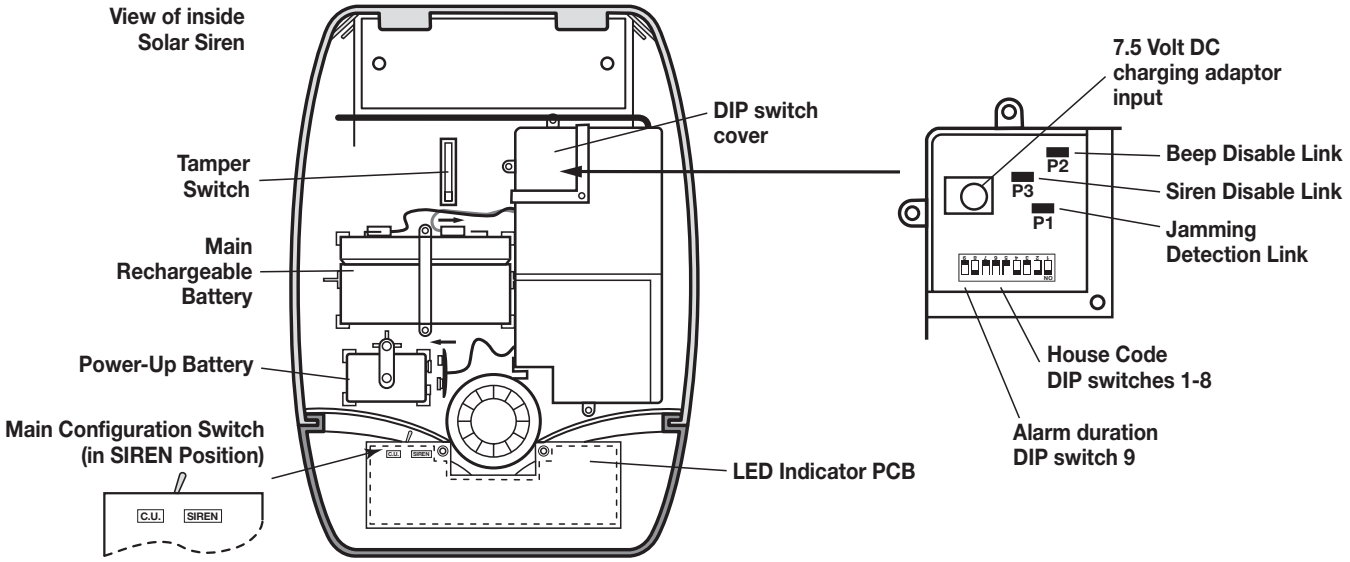


Mounting the device on a north facing wall should be avoided as this could mean that during the short dark days of winter months the solar panel may not receive sufficient daylight in order to maintain the battery charge at acceptable levels.

Shadows cast by neighbouring walls, trees and roof overhangs should also be avoided. If the Siren is to be mounted below the eaves, it should be positioned a distance of at least twice the width of the eaves overhang below the eaves. Remember that in winter the sun is lower in the sky and you should avoid winter shadows where possible.

The Siren contains a sophisticated radio receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the Siren. It is therefore important to mount the Siren a minimum distance of 1 metre away from any external or internal metalwork, (i.e. drainpipes, gutters, radiators, mirrors etc.). Be especially aware of radiators mounted on the inside wall behind possible locations for the Siren.

Ensure that the position selected for the Siren is within effective range of the Control Panel.



INSTALLING AND CONFIGURING THE SOLAR SIREN

Ensure that the system is in Test mode (see page 13).

1. Remove the fixing screw from the bottom edge of the Siren housing and carefully hinge off the front cover. Hold the mounting plate in position and mark the positions of the four mounting holes. A spirit level placed on the casing will ensure a perfect level.

2. Drill four 6mm holes and fit the wall plugs.

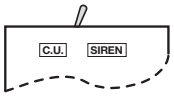
3. Fit the two 30mm fixing screws in the top holes leaving approximately 10mm of the screw protruding.

4. Fit the top keyhole slots of the mounting plate over the screw heads. Remove the mounting plate and adjust the screws until they form a neat fit with the mounting plate with minimal movement.

5. Secure the mounting plate in position using the two 25mm fixing screws in the bottom fixing holes.

6. Ensure that the Siren's main configuration switch on the LED indicator board is set to "SIREN" for use with this alarm system.

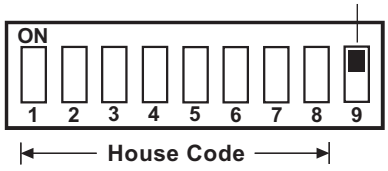
Main Configuration Switch (in SIREN Position)



7. Undo the three screws holding the DIP Switch Cover in place and remove the cover.

8. Under the cover you will find a series of 9 DIP switches.

Alarm Duration DIP Switch 9



Note: When the Siren is viewed as shown above (Solar panel at top) the DIP switches are 'upside down'.

9. DIP switches 1-8 are used to set the House Code for the Siren and must be set to the same ON/OFF combination as all other system devices.

10. If required the maximum length of time that the Siren will sound for when activated under an alarm condition may be limited to 3 minutes using DIP switch 9 as follows:

ON	as Control Panel setting
OFF	limited to 3 minutes

11. The Siren will acknowledge Disarm signals from the Remote Control and Service Mode signals by beeping. It is possible to disable these acknowledgement beeps if required by removing the jumper link P2 on the circuit board.

P2 fitted	Beep enabled
P2 removed	Beep disabled

12. If for any reason you need to disable the Siren, remove jumper link P3 on the circuit board. This will prevent the Siren from sounding during an alarm condition. However, the Siren will still beep to acknowledge signals from the Remote Control, (provided the beep feature has not been disabled).

P3 fitted	Siren enabled
P3 removed	Siren disabled

13. To enable the Jamming Detect feature in the Solar Siren fit the jumper link taped to the cover of the Siren control unit across link pins P1 on the circuit board.

P1 fitted	Jamming Detection enabled
P1 removed	Jamming Detection disabled

14. Refit the DIP switch cover and replace the 3 cover fixing screws. Do not over tighten the screw as this could damage the thread.

POWERING UP THE SIREN

Connect the 9V PP3 power-up battery to the battery clip.

1. Connect the rechargeable battery to the charging leads. Connect the Red lead to the Red (**+**) terminal and the Black lead the Black (**-**) terminals. Both indicator LEDs will flash together in a single long flash to indicate that the unit is operational.

2. Press the tamper switch, both indicator LEDs will flash together several times. The LED's will then continue to flash alternately every 10 seconds thereafter to indicate that the Siren is functioning.

3. Hinge the front cover locating tabs over the top edge of the back plate and carefully push the base of the siren cover into place. Secure the Siren cover in place by refitting the fixing screw in the bottom edge of the cover. Do not over tighten the screw as this could damage the thread.

IMPORTANT: Ensure that the rear tamper switch is closed when you fit the siren cover to the back-plate (i.e. listen for the switch to click). If the switch does not close it will prevent the Siren from operating correctly. If necessary, remove the siren cover again and adjust the screw on the back-plate tamper plunger to ensure the switch closes when the Siren is secured in position. If fitted remove the protective film covering the Solar Panel.

Testing the Solar Siren:

4. Use the ↑ and ↓ buttons to scroll through the menu until '**ALARM TEST**' is displayed and press ENTER.

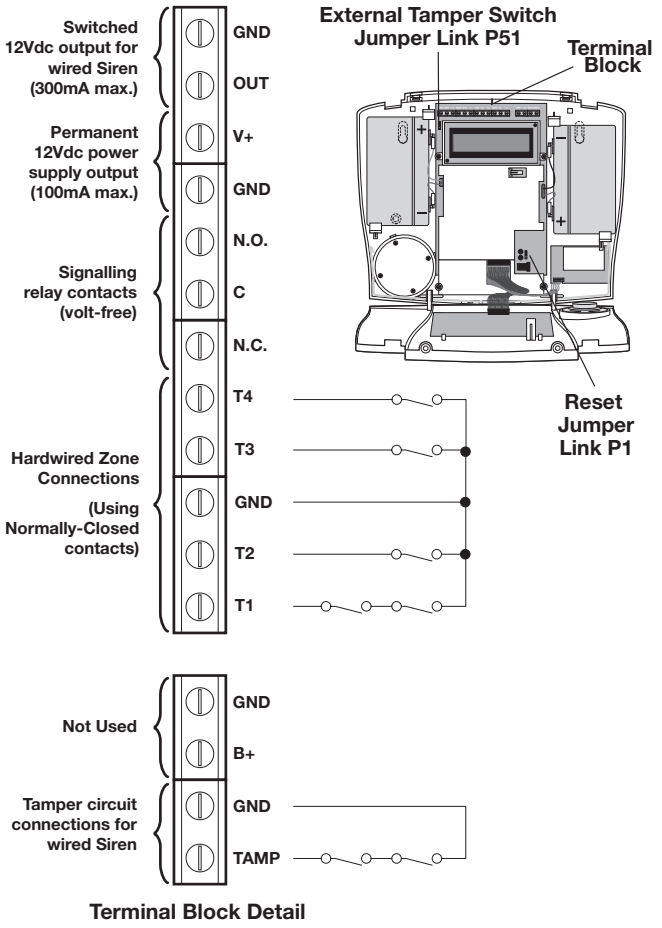
5. Scroll through the menu until '**WIREFREE SIREN TEST**' is displayed and press ENTER.

The solar siren should activate for a period of approximately 5 seconds.

6. Press ESC to return to the top level menu of Test Mode.

IMPORTANT: The Siren must now be left in position for at least 24 hours to fully charge the Main Battery before testing or operating the alarm.

EXTERNAL CONNECTIONS



Terminal Block Detail

The Control Unit incorporates a terminal block for connection of hard-wired zones (7-10) and a wired Siren unit. The connection terminal block is located inside the Control Panel behind the front cover. To access the terminal block you must first put the system into Test Mode to prevent an alarm occurring.

To do this:

Press , 1 2 3 4 , ENTER

User Access Code

Undo the two fixing screws on the top edge of the Control Panel and open the front cover.

Before making any connections, ensure that the Reset Jumper Link P1 is in the 'OFF' position and then remove the DC power jack and disconnect 1 of the back-up batteries.

The hardwired zone and tamper switches should be volt free and normally closed, with the contacts opening in order to trigger an alarm.

Note: Jumper Link P51 should be fitted into the ON position only if the external hardwired tamper circuit is used, otherwise it must be in the OFF position.

After making your external connections reconnect the power supply and Back-up Battery. Then close the Control Panel cover and tighten the screws on the top edge of the Control Panel.

Press **ESC** to leave Test mode and return to Standby.

TESTING THE SYSTEM

The Control Panel has a built in test facility to enable you to test the system at any time. However it is recommended that the system is tested at regular intervals not exceeding 3 months.

With the system in Standby press

, 1 2 3 4 , ENTER

User Access Code

The Arm and Part-Arm LEDs will flash.

The system is now in Test Mode.

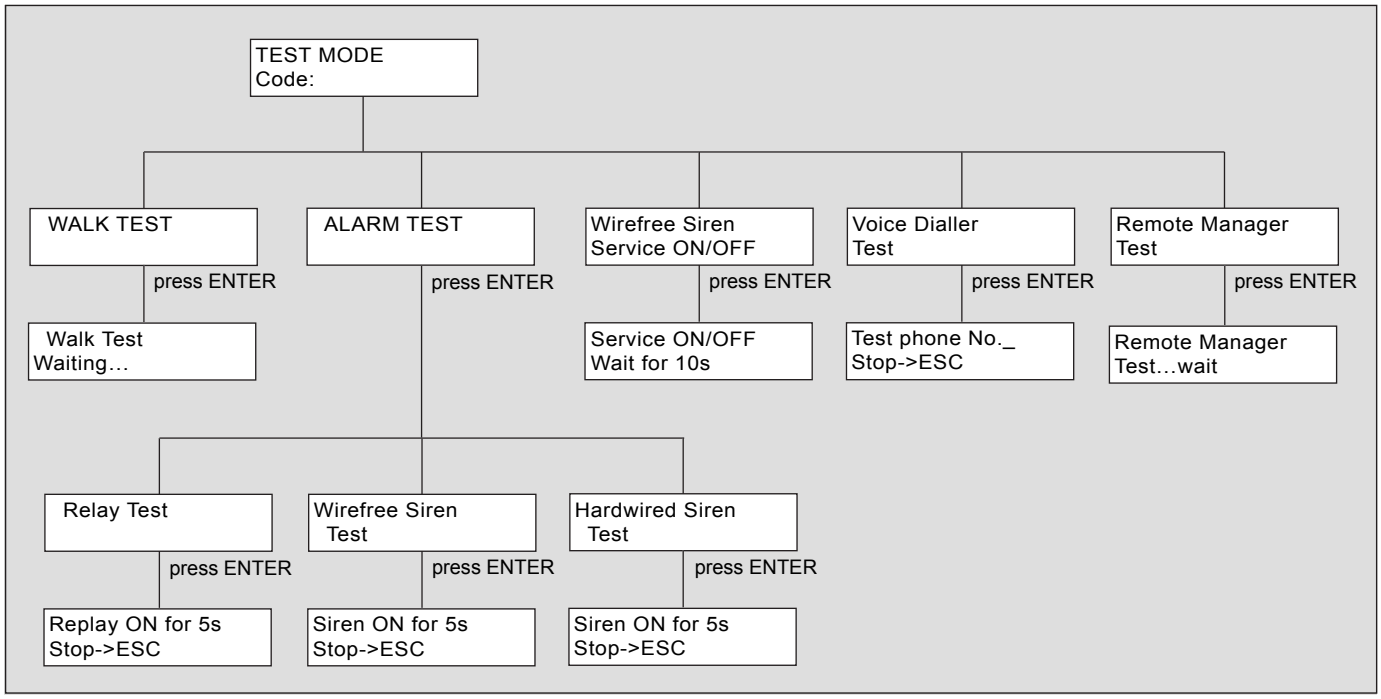
Use the ↑ and ↓ buttons to scroll through the menu and press ENTER to select the displayed test function or sub-menu.

Note: After completing all required test functions press **ESC** to leave Test Mode and return to Standby.

DETECTOR TEST

Before commencing testing please ensure that there is no movement in any PIR protected area, all doors/ windows protected by Magnetic Contact Detectors are closed and that all battery covers and housings are correctly fitted.

Note: It may be helpful to have a 2nd person to assist with this test.



Scroll through the top level Test Mode menu until '**WALK TEST**' is displayed and press ENTER.

'**Walk Test Waiting…**' will be displayed.

If your system includes Remote Controls:

For each Remote Control:

1. Activate each button on the Remote Control in turn including the PA switch. As each button is pressed the Control Panel will beep and the button name will be displayed,

e.g. '**REMOTE CONTROL DISARM'** will be displayed when the button is pressed.

If your system includes PIR Detectors:

For each Detector:

2. Ensure that the area protected by the PIR has been free from movement for at least 2 minutes and then walk into the area to trigger the detector.

Note: To conserve power the PIR will only detect movement if there has been no movement detected within the previous 2 minutes.

When the detector is triggered the Control Panel will beep to indicate that a signal has been received and display the zone of the detector that was activated.

3. Remove the battery cover from the detector to operate the anti-tamper switch.

The Control Panel will beep and '**Accessory Tamper**' will be displayed.

If your system includes Magnetic Contact Detectors:

For each Detector:

4. Open the protected door/window to trigger the detector.

When the detector is triggered the Control Panel will beep to indicate that a signal has been received and display the zone of the detector that was activated.

5. Remove the battery cover from the detector to operate the anti-tamper switch.

The Control Panel will beep and '**Accessory Tamper**' will be displayed.

Press ESC to exit Walk Test and return to the top level Test Mode menu.

ALARM SIREN TEST

Scroll through the top level Test Mode menu until '**ALARM TEST**' is displayed and press ENTER.

Scroll through the menu until the required alarm is displayed and press ENTER to operate the selected alarm for 5 seconds.

- Select '**Wirefree Siren Test**' to operate the External Solar Siren.

- Select '**Hardwired Siren Test**' to operate the Control Panel Siren and hardwired Siren (if connected).

- Select '**Relay Test**' to operate the Signalling Relay contacts.

Press ESC to exit Alarm Test and return to the top level Test Mode menu.

SOLAR SIREN SERVICE MODE SWITCHING

The Siren includes a Service Mode facility which prevents the siren's tamper switch from triggering an alarm when it is removed from the wall for maintenance or to change the batteries. After changing the batteries and refitting in position, the Siren must be put back into Operating Mode, otherwise it will not sound in the event of an alarm.

1. Scroll through the top level Test Mode menu until '**Wirefree Siren Service ON/OFF**" is displayed

Press ENTER to switch the Siren between Operating and Service Modes. The mode into which the Siren is switching will be indicated as follows:

Service Mode: The Siren will produce 2 short beeps/ LED flashes and then after approximately 6 seconds a single long beep/LED flash followed immediately by 2 short beeps/LED flashes to indicate that it has switched into Service Mode.

Operating Mode: After approximately 6 seconds the Siren will produce a single long beep/LED flash to indicate that it has switched into Operating Mode.

2. Press ESC to exit Solar Siren Service Mode Switching and return to the top level Test Mode menu.

VOICE DIALLER TEST

1. Scroll through the top level Test Mode menu until '**VOICE DIALER TEST**' is displayed and press ENTER.

2. If the Voice Dialler is enabled it will be activated and will follow the normal calling process. It will call each enabled number in the dialling sequence the set number of times with the main and Intruder alarm messages will be replayed to the called number.

The test sequence may be cancelled either at the Control Panel by pressing ESC or by the call recipient pressing the * button on their telephone keypad.

3. Press ESC to exit Alarm Test and return to the top level Test Mode menu.

REMOTE MANAGER TEST

1. Scroll through the top level Test Mode menu until '**REMOTE MANAGER TEST**' is displayed and ENTER.

2. If the Remote Manager is enabled it will be activated and a test call will be placed to the Remote Alarm Monitoring Service provider.

If an acknowledgment signal is not received then a failure message will be displayed on the screen. In this event the system configuration for the Remote Manager should be checked in conjunction with the Alarm Monitoring Service provider.

3. Press ESC to exit Alarm Test and return to the top level Test Mode menu.

FACTORY SETTINGS

USER SETUP

User Access Codes:	
Users 1-6:	Not programmed
Master User:	1234
Latch Key messages:	Not programmed

SYSTEM SETUP

House Code:	Not programmed
Alarm Time:	ON, 180 seconds
Wirefree Siren:	ON
Jamming Detection:	OFF
Back Light:	10 seconds
Alarm Relay:	On Until Disarm
Zone Lockout:	ON
Remote Phone Control:	OFF
Rings to Answer Phone:	6
Dialler Delay:	ON
Dial Method:	Tone/DTMF
Dialler Mode:	Voice Dialler

ZONE SETUP (Z1-10)

Name:	No Name
Type:	Intruder
Final Exit:	OFF
Chime:	OFF
Entry Delay:	Zone 1: ON, 30 seconds Zones 2-10: OFF
Part-Arm 1:	Zone 1-4: ON Zones 5-10: OFF
Part-Arm 2:	OFF
Walk Through:	OFF

VOICE DIALLER SETUP

Phone Numbers:	Not programmed
Message Play Time:	70 seconds
Alarm Messages:	Not programmed
Call Routing:	All numbers disabled
Call Confirms:	1
Call Attempts:	3

FULL ARM SETUP

Exit Delay:	ON, 30 seconds
Entry Delay Beep:	ON
Exit Delay Beep:	ON

PART-ARM 1 SETUP

Exit Delay:	ON, 30 seconds
Entry Delay Beep:	ON
Exit Delay Beep:	ON

PART-ARM 2 SETUP

Exit Delay:	ON, 30 seconds
Entry Delay Beep:	ON
Exit Delay Beep:	ON

TIME & DATE

Time:	12:00:00
Date:	01/01/02

LATCH KEY SETUP

Status:	OFF
Selected User Setup:	OFF (all users)
Phone Numbers:	Not programmed

ANSWERPHONE SETUP

Status:	OFF
Greeting Message:	Not programmed

REMOTE MANAGER SETUP

Phone No:	Not programmed
Unit ID No:	Not programmed
Call Attempts:	3

RESET FACTORY SETTINGS

1. Press [🔓] , [?] [?] [?] [?] , [ENTER]

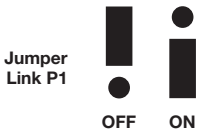
User Access Code

This puts the system into Test Mode.

2. Undo the Control Panel cover fixing screws and open the cover.

3. Remove the DC power jack, then remove and disconnect one of the back-up batteries.

4. Set jumper link P1 to the ON position.



5. Reconnect the power supply jack.

6. The Control Panel will now re-set itself with all factory settings.

'**EEPROM RESET**' will be displayed while the factory settings are restored to memory.

Once the memory reset has been completed '**DISARM READY**' will be displayed.

7. Reconnect and replace the back-up battery.

8. Reset jumper link P1 into the OFF position.

9. Close the Control Panel cover and refit the fixing screws.

PROGRAMMING INSTRUCTIONS

With the system in Standby (i.e. with the display showing "DISARM READY").

Press [🔑] , [?] [?] [?] [?] , [ENTER]

Master User Access Code

The system is now in Programming Mode

Navigating through the Programming Mode Menus (read carefully before you start)

The programmable system parameters are arranged by group in a series of menus within programming mode.

Each menu (and sub-menu) will contain all programmable system parameters related to the particular function.

Note: Some basic system parameters will be contained within the system menu because they relate to a number of different functions.

At each menu level use the [↑] and [↓] buttons to scroll through the available options.

Note: A menu item displayed in full capitals (e.g. 'FULL ARM SETUP') indicates that there is another menu below that option. An option displayed in lower case (e.g. '5.2 Entry Delay Beep') indicates that this is a parameter setting and no menu below, (although there may be setting options).

Press [ENTER] to:

a. select the displayed menu, or

b. change the displayed parameter setting, or

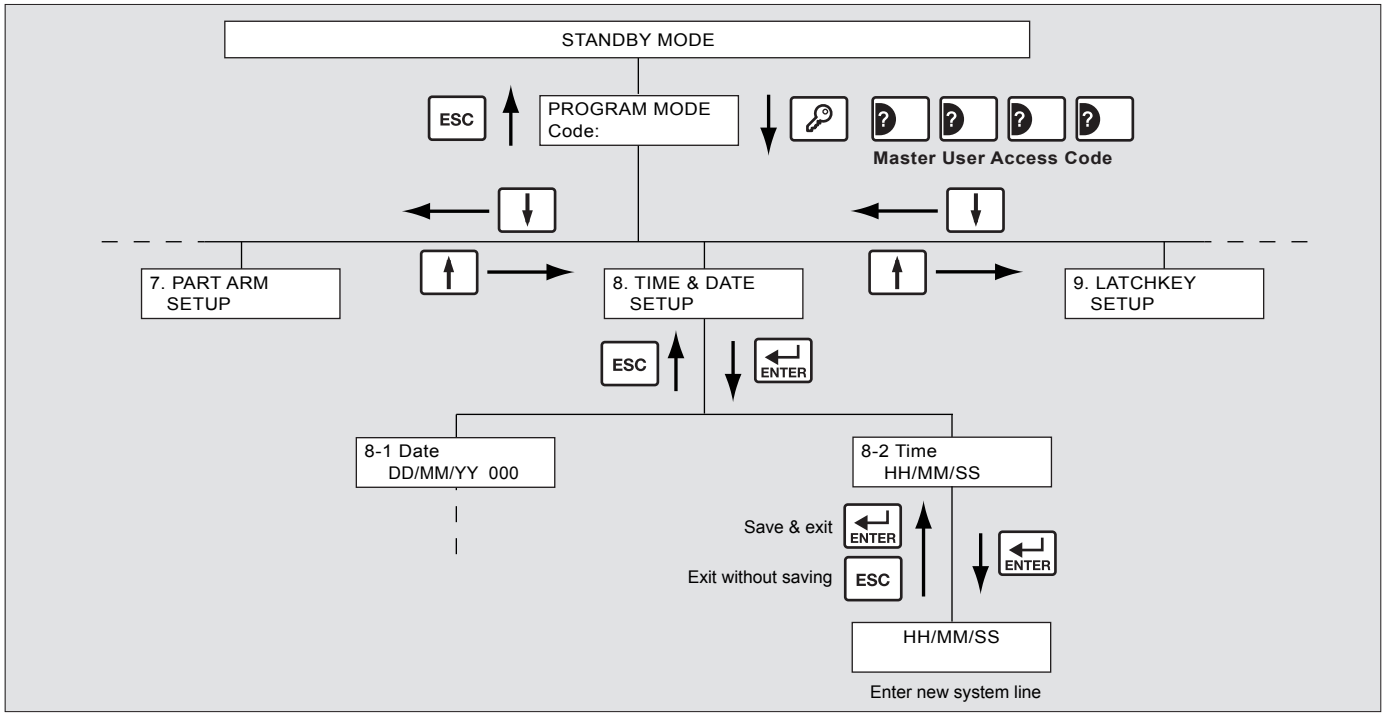
c. save the changed parameter setting and revert to the previous level.

Press [ESC] to:

a. exit to the previous menu level, or

b. revert to the previous level without saving a changed parameter setting.

Note: After programming all required functions, press [ESC] to leave Programming mode and return to Standby.



Telephone Application Setup.

If using any of the telephone based functions, (e.g. Answerphone, Voice Dialler, Remote Phone Access & Control etc) the Dial Method must be set according to the exchange type, (i.e. Pulse or Tone/DTMF).

Voice Dialler

Page 33

1) set Dial Method
2) set Dial Mode = “Voice Dialler”

} see SYSTEM SETUP menu

3) set Voice Dialler Phone Numbers
4) set Dial Sequence
5) record Alarm Messages
6) set Call Attempts

} see VOICE DIALLER SETUP menu

Remote Manager

Page 40

1) set Dial Method
2) set Dial Mode = “Remote Manager”

} see SYSTEM SETUP menu

3) set Remote Manager Phone Numbers
4) set System ID Code
5) set Call Attempts

} see REMOTE MANAGER SETUP menu

Answerphone

Page 39

1) set Dial Method
2) set Rings to Answer Phone

} see SYSTEM SETUP menu

3) set Answerphone Status = ON
4) record Greeting Message

} see ANSWER PHONE SETUP menu

Latch Key

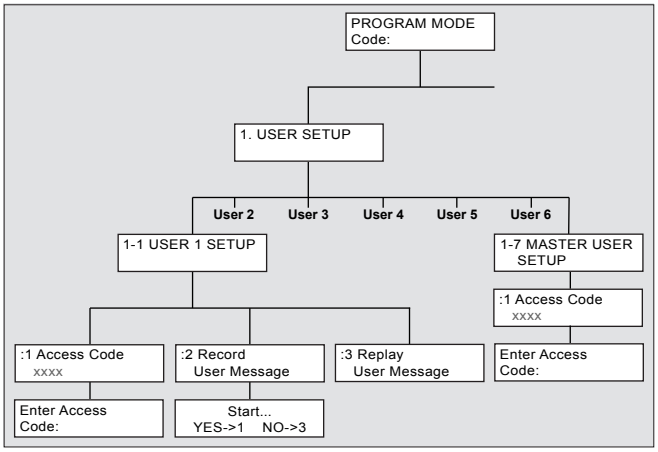
Page 38

1) set Dial Method — see SYSTEM SETUP menu
2) set Latch Key Status = “ON” or “Selected-Users”
3) enable users if “selected users” chosen
4) set Latch Key Phone Numbers

} see LATCH-KEY SETUP menu

5) record User ID Message(s) — see USER SETUP menu

USER SETUP



This menu allows the 4 digit User Access Codes to be configured for each user. The general users (1-6) may also record a 4 second message to be used with the Latch Key feature.

Note: For the Latch Key feature to operate correctly the “Dial Method” (see System Setup) and the items within the Latch Key Setup menu must be correctly set and programmed.

Scroll through the top level programming menu until **’1. USER SETUP**’ is displayed and press ENTER.

Note: After configuring all required users, press to return to the top level of programming menu.

USERS 1-6

Default setting: not programmed

Scroll through the menu until the required User '**USER _ SETUP**' is displayed and press ENTER .

User Access Code

Scroll through the menu until '**:1 Access Code**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the new 4 digit Access Code and then

Press ENTER to save and exit, or

Press ESC to exit without saving.

Record User Latch Key Message

This enables each user to record a short 4 second message for use with the Latch Key facility. e.g. "system disarmed by user 1".

Scroll through the menu until '**:2 Record User Message**' is displayed.

To record a new message press ENTER .

Press 1 to start the voice recorder.

After recording, press ESC to stop the recorder and cancel any remaining recording time. The new message will then be replayed.

Press 3 to exit without changing.

Replay User Latch Key Message

Scroll through the menu until **':3 Replay User Message**' is displayed and press ENTER to replay the message.

Press ESC to return to the top level User-Setup menu.

MASTER USER

Default Access Code: 1234

Scroll through menu until '**1-7 MASTER USER SETUP**' is displayed and press ENTER .

Scroll through the menu until '**:1 Access Code**' (and the current setting) is displayed.

To change the setting press ENTER .

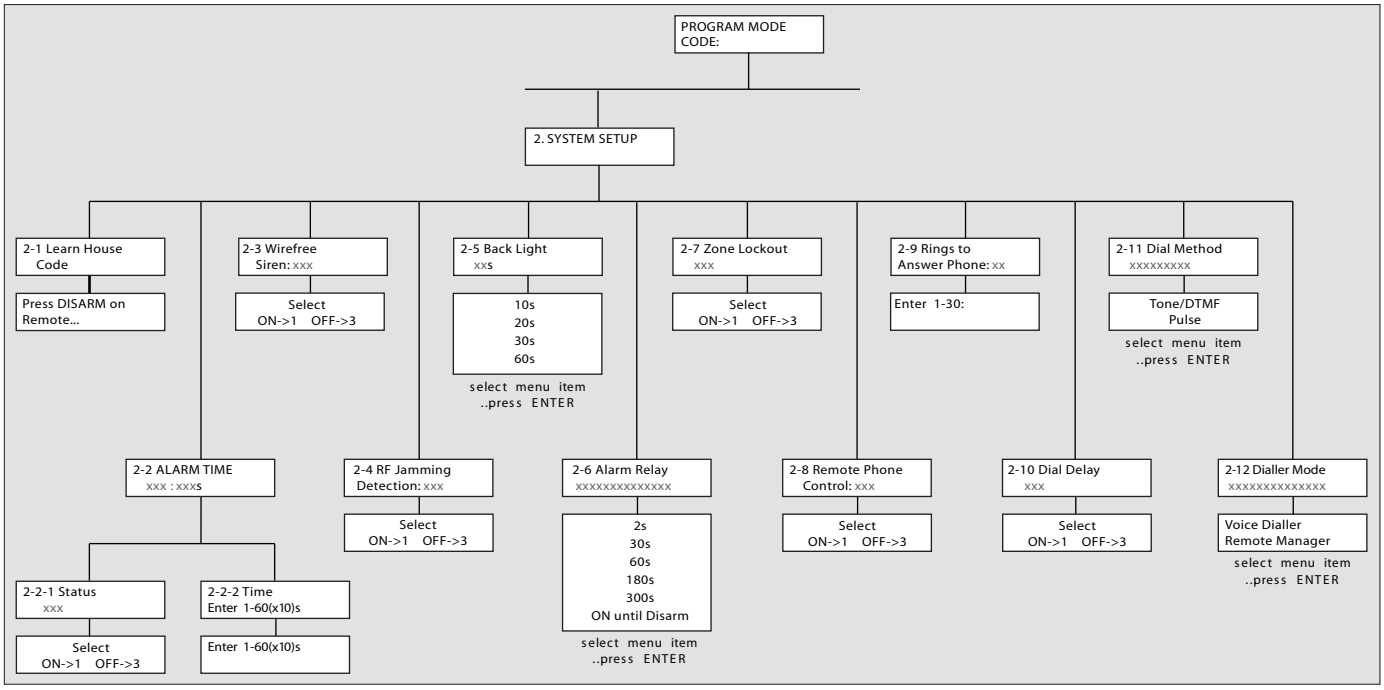
Type in a new 4 digit Access Code, and then

Press ENTER to save and exit, or

Press ESC to exit without saving.

Press ESC to return to the top level User-Setup menu.

SYSTEM SETUP



The parameters in this menu allow the configuration of general system parameters, such as the Control Panel House Code, Alarm Duration and control of any hardwired or output relay alarm contacts. This section also contains the basic setup information for the systems telephone dialler interface which must be configured appropriately if any of the telephone based functionality is to be used.

Scroll through the top level programming menu until '**2. SYSTEM SETUP**' is displayed and press ENTER .

Note: After completing the system setup press **ESC** to return to the top level programming menu.

LEARN SYSTEM HOUSE CODE

Scroll through the menu until '**2-1 Learn House Code**' is displayed.

To change the setting press ENTER .

The current House Code setting will be displayed. The new system House Code can be programmed either directly at the Control Panel or via a Remote Control Unit.

At the Control Panel:

Press buttons 1-8 on the Control Panel to configure the display to the correct house code setting. As each button is pressed the corresponding digit in the code will change to the opposite state, ("0" or "1").

1 = House Code DIP Switch On/Up
0 = House Code DIP Switch Off/Down

Using a Remote Control:

With the required House Code already configured, press the button on the Remote Control.

When the Control Panel receives the signal from the Remote Control the Panel will beep and the display will change to show the received House Code on lower line of the display beneath the corresponding DIP switch numbers (1-8).

Press ENTER to save the new setting, or

Press **ESC** to exit without saving.

Note: Make a note of the System House Code in the Alarm Record section.

ALARM DURATION

Scroll through the menu until '**2-2 ALARM TIME**' (and the current setting) is displayed.

To change the settings press ENTER .

On/Off Status

Default setting: ON

Scroll through the menu until '2-2-1 Status' (and the current setting) is displayed.

To change the setting press [ENTER].

Press [1] to enable the Siren, or

Press [3] to disable the Siren.

Siren Duration

Default setting: 180 seconds

Scroll through the menu until '**2-1-2 Time**' (and the current setting) is displayed.

To change the setting press [ENTER].

Enter the required Alarm Duration in units of 10 seconds. e.g. enter 6 for a 60 seconds alarm duration (max. setting 60, i.e. 600 seconds / 10 minutes).

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level System Setup menu.

Note: Following an alarm, the Siren will continue to sound until either the system is Disarmed; or the Alarm Duration time expires. If the "3 minute alarm time limit" of the Siren is enabled, then the Siren will shut down after 3 minutes even if the Control Panel siren is still sounding.

WIREFREE SIREN

Allows the wirefree siren to be enabled or disabled.

Default setting: ON

Scroll through the menu until '**2-3 Wirefree Siren**' (and the current setting) is displayed.

To change the setting press [ENTER].

Press [1] to enable the Solar Siren, or

Press [3] to disable the Solar Siren.

JAMMING DETECTION

Allows the jamming detection in the control panel to be enabled or disabled.

Default setting: OFF

Scroll through the menu until '**2-4 RF Jamming Detection**' (and the current setting) is displayed.

To change the setting press [ENTER].

Press [1] to enable Jamming Detection, or

Press [3] to disable Jamming Detection.

CONTROL PANEL BACK LIGHT

This controls how long the display backlight will remain illuminated for after a key is pressed.

Default setting: 10 seconds

Scroll through the menu until '**2-5 Back Light**' (and the current setting) is displayed.

To change the setting press [ENTER].

Scroll through the menu options, until the required setting is displayed.

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

ALARM RELAY

This controls the operation of the NO/NC signalling relay contacts following an alarm.

Default setting: "ON Until Disarm"

Scroll through the menu until '**2-6 Alarm Relay**' (and the current setting) is displayed.

To change the setting press [ENTER].

Scroll through the menu options, until the required setting is displayed.

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

ZONE LOCKOUT

If enabled, this prevents a single zone from triggering an alarm more than 3 times before the system is disarmed.

Default setting: ON

Scroll through the menu until '**2-7 Zone Lockout**' (and the current setting) is displayed.

To change the setting press [ENTER].

Press [1] to enable Zone Lockout, or

Press [3] to disable Zone Lockout.

REMOTE PHONE ACCESS AND CONTROL

If enabled, this allows the system to be remotely controlled via the telephone.

Default setting: OFF

Scroll through the menu until '**2-8 Remote Phone Control**' (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable Remote Phone Control, or

Press 3 to disable Remote Phone Control.

RINGS TO ANSWER PHONE

This sets the number of rings which occur before the Control Panel will "pick up" the call to operate with the Answerphone or Remote Phone Access features.

Default setting: 6

Scroll through the menu until '**2-9 Rings To Answer Phone**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the required number of rings (1-30).

Press 1 to save and exit, or

Press 3 to exit without saving.

DIALLER DELAY

If enabled, this delays the activation of the telephone dialler following an alarm for a period of approximately 30 seconds to allow the system to be disarmed.

Default setting: ON

Scroll through the menu until '**2-10 Dial Delay**' (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable the Dialler Delay, or

Press 3 to disable the Dialler Delay.

DIAL METHOD

This enables the telephone dialler to be configured for the type of exchange it is connected to. Most exchanges are now Tone/DTMF systems).

Default setting: Tone/DTMF

Scroll through the menu until '**2-11 Dial Method**' (and the current setting) is displayed.

To change the setting press ENTER .

Scroll through the menu options, until the required setting is displayed.

Press ENTER to save and exit, or

Press ESC to exit without saving.

DIAL MODE

This controls whether the telephone dialler operates with the Voice Dialler or Remote Security Monitoring service.

Default setting: Voice Dialler

Scroll through the menu until '**2-12 Dialer mode**' (and the current setting) is displayed.

To change the setting press ENTER .

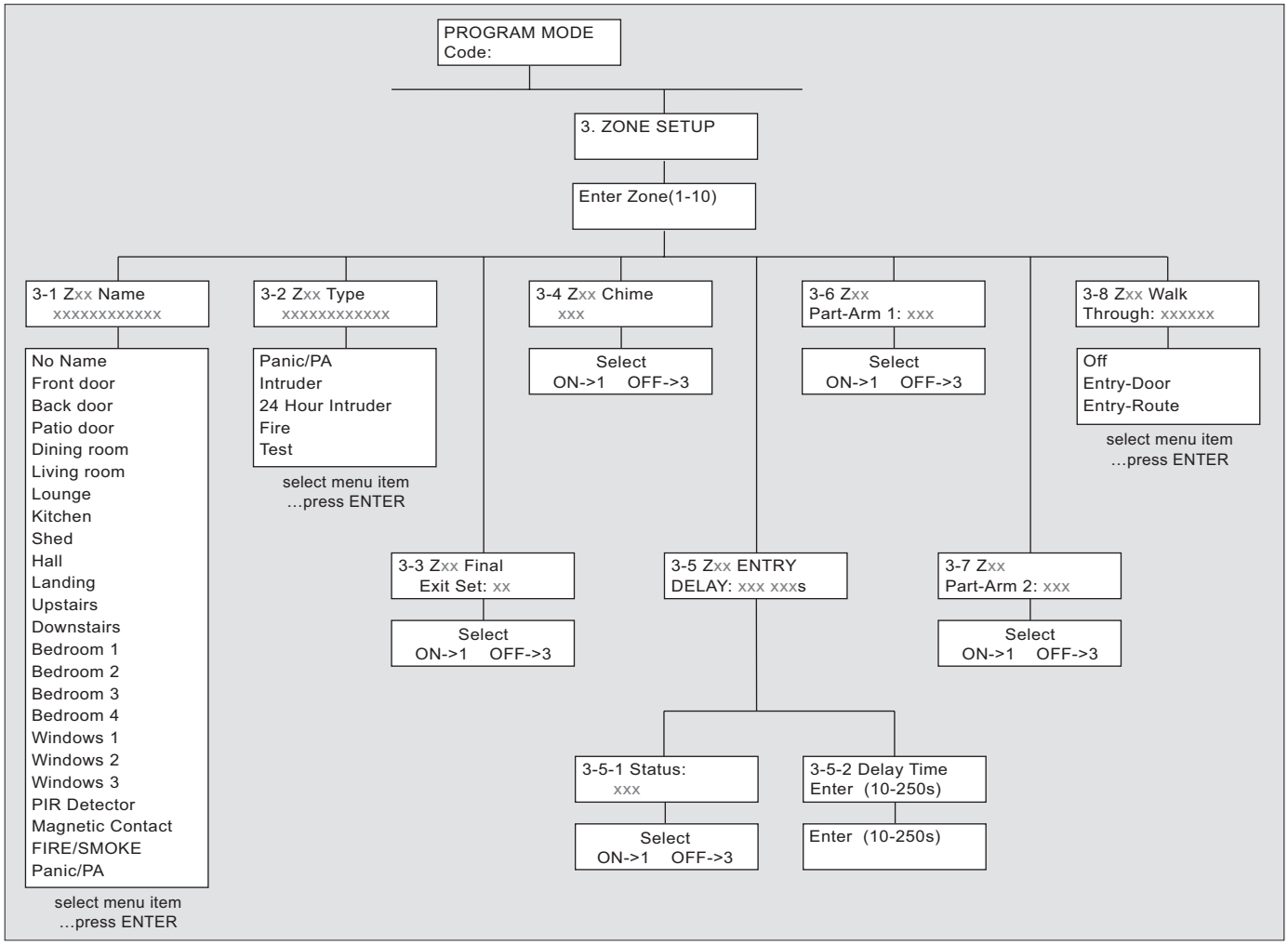
Scroll through the menu options, until the required setting is displayed.

Press ENTER to save and exit, or

Press ESC to exit without saving.

ZONE SETUP

The parameters in this menu allow each zones specific function to be configured.



Scroll through the programming menu until '**3. ZONE SETUP**' is displayed and press ENTER .

Enter the zone number to be configured and press ENTER .

The following configuration options are based upon setting zone 1. Options for all other zones (2-10) are identical except the zone number reference will change according to the zone being configured.

Note: After completing the Zone Setup press ESC to return to the top level programming menu.

NAME

This enables a name to be allocated to the zone so it can be identified by its location.

Default setting: 'No Name'

Scroll through the menu until '**3-1 Z01 Name**' (and the current setting) is displayed.

To change the setting press ENTER .

Scroll through the menu options until the required setting is displayed.

Press ENTER to save and exit, or

Press ESC to exit without saving.

TYPE

Each zone may be programmed to operate in 1 of 5 different modes dependant upon the type of alarm function required. The following types are available:

Panic/PA - used to provide 24 hour monitoring of any Personal Attack (PA) switches fitted to the system. Activation of any PA switch will immediately initiate an Alarm.

Intruder - provides standard intruder monitoring.

24 Hour Intruder - used to provide 24 hour monitoring of areas requiring continuous security protection even while the system is Disarmed, (e.g. gun lockers). Activation of any detector on a security zone will immediately initiate an Alarm.

Fire - use to provide 24 hour monitoring of any Fire/ Smoke detectors fitted to the system. Activation of any detector will immediately initiate an Alarm.

Test - when the system is armed, any detector on the zone will generate an entry in the Event Log without initiating an alarm.

> **Note:** Personal Attack, 24 hour Intruder and Fire modes all operate on a 24 hour basis, (i.e. they are able to initiate an Alarm at any time even if the system is Disarmed).

Default setting: 'Intruder'

Scroll through the menu until '**3-2 Z01 Type**' (and the current setting) is displayed.

To change the setting press [ENTER] .

Scroll through the menu options until the required setting is displayed.

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

FINAL EXIT SET

This controls whether the zone will trigger the systems Final Exit Set feature. Triggering a detector on a "Final Exit Set Zone" during the exit-delay will reset the remaining exit-delay to 5 seconds.

Default setting: OFF

Scroll through the menu until '**3-3 Z01 Final Exit Set**' (and the current setting) is displayed.

To change the setting press [ENTER] .

Press [1] to enable the zone's Final Exit Set facility, or

Press [3] to disable the zone's Final Exit Set facility.

CHIME

This controls whether the zone will operate with Chime Mode.

Default setting: OFF

Scroll through the menu until '**3-4 Z01 Chime**' (and the current setting) is displayed.

To change the setting press [ENTER] .

Press [1] to enable the zone in Chime Mode, or

Press [3] to disable the zone in Chime Mode.

ENTRY DELAY

Scroll through the menu until '**3-5 ENTRY DELAY**' (and the current setting) is displayed.

To change the settings press [ENTER] .

On/Off Status

Default setting: zone 1: ON
zones 2-10: OFF

Scroll through the menu until '**3-5-1 Status**' (and the current setting) is displayed.

To change the settings press [ENTER] .

Press [1] to enable the zones Entry-Delay, or

Press [3] to disable the zone's Entry-Delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until '**3-5-2 Delay Time**' (and the current setting) is displayed.

To change the settings press [ENTER] .

Enter the required delay period (10 to 250 seconds).

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level Zone Setup.

PART-ARM 1

This controls whether the zone is active when Part-Arm 1 is armed.

Default setting: zones 1-4: ON
Zones 5-10: OFF

Scroll through the menu until '**3-6 Z01 Part-Arm 1**' (and the current setting) is displayed.

To change the setting press [ENTER].

Press [1] to enable the zone in Part-Arm 1, or

Press [3] to disable the zone in Part-Arm 1.

PART-ARM 2

This controls whether the zone is active when Part-Arm 2 is armed.

Default setting: OFF (all zones)

Scroll through the menu until '**3-6 Z01 Part-Arm 1**' (and the current setting) is displayed.

To change the setting press [ENTER] .

Press [1] to enable the zone in Part-Arm 2, or

Press [3] to disable the zone in Part-Arm 2.

WALK THROUGH

This controls whether the zone operates with the systems "Walk Through" feature and determines if the zone is the Entry-Door or is on the Entry-Route.

Default setting: OFF

Scroll through the menu until '3-8 Z01 Walk Through' (and the current setting is displayed.

To change the setting press [ENTER] .

Scroll through the menu options until the required setting is displayed.

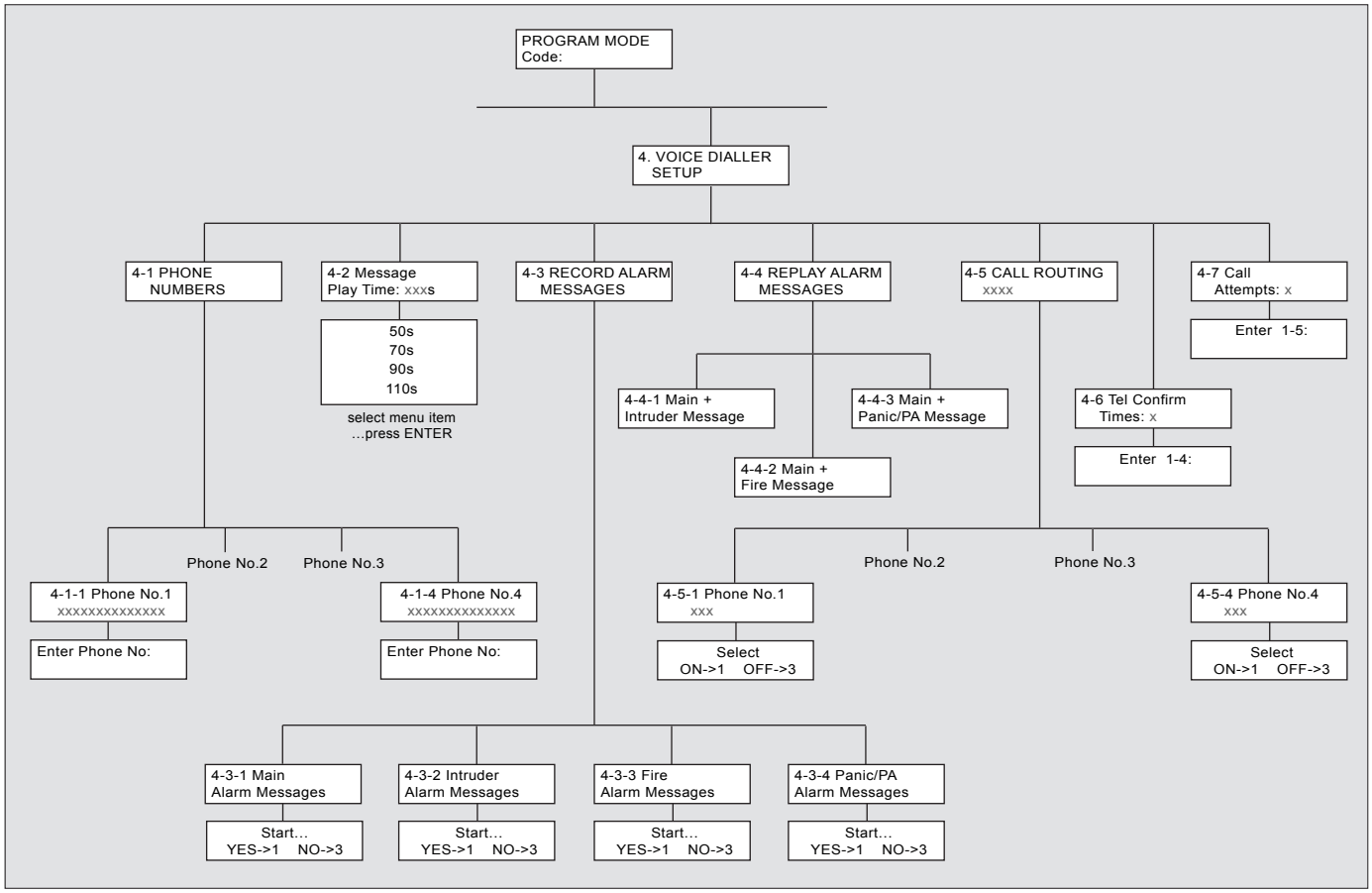
Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

VOICE DIALLER SETUP

The parameters in this menu allow the setting of the systems Voice Dialler. It allows up to 4 phone numbers to be entered and the call routing sequence to be set by defining which number is called and the number of attempts made to contact each number. The alarm voice messages are also recorded here.

Note: For the Voice Dialler to operate correctly the "Dial Method" and "Dialler Mode" (see system setup) must be correctly set and programmed.



Scroll through the programming menu until '**4. VOICE DIALER SETUP**' is displayed and press ENTER .

Note: After completing the Voice Dialler Setup press to ESC return to the top level programming menu.

TELEPHONE NUMBERS

Scroll through the menu until '**4-1 PHONE NUMBERS**' is displayed and press ENTER .

Scroll through the menu until the required '**Phone No._**' (and the current setting) is displayed.

To change the number press ENTER .

Enter the new phone number (32 digits max.).

Notes:

Press 🔑 to insert a 3.5 seconds pause in the dialling sequence.

Press 🔓 to move the cursor left.

Press to move the cursor right.

Press to delete the number under the cursor.

Press (and hold) to erase the entire number.

Press ENTER to save and exit, or

Press ESC to exit without saving.

After programming all required phone numbers press to ESC return to the top level Voice Dialler menu.

ALARM MESSAGE PLAY TIME

This is the total time for which the alarm messages will be played & repeated by the Voice Dialler.

Default setting: 70 seconds

Scroll through the menu until '**4-2 Message Play Time**' (and the current setting) is displayed.

To change the settings press ENTER .

Scroll through the menu options until the required setting is displayed.

Press ENTER to save and exit, or

Press ESC to exit without saving.

RECORD ALARM MESSAGES

Scroll through the menu until '**4-3 RECORD ALARM MESSAGES**' is displayed and press ENTER .

Scroll through the available menu options until the required message to be recorded is displayed.

a. Main message (12 seconds max.).

b. Intruder Alarm message (4 seconds max.).

c. Fire Alarm message (4 seconds max.).

d. Panic/PA Alarm message (4 seconds max.).

To record a new message press ENTER .

Press 1 to start the voice recorder.

> After recording, press ESC to stop the recorder and cancel any remaining recording time. The new message will then be replayed.

Press 3 to exit without changing.

Press ESC to return to the top level Voice Dialler Setup menu.

REPLAY ALARM MESSAGES

Scroll through the menu until '**4-4 REPLAY ALARM MESSAGES**' is displayed and press ENTER .

Scroll through the menu options until the required message is displayed and press ENTER to replay the message.

Press ESC to return to the top level Voice Dialler menu.

CALL ROUTING

This controls which phone numbers in the dialling sequence are enabled and will be called when the Voice Dialler is activated.

Default setting: all numbers disabled.

Scroll through the menu until '**4-5 CALL ROUTING**' (and the current setting) is displayed.

The status of each phone number is displayed in order with an 'x' indicating that the number is disabled and a '0' indicating an enabled number.

For example: A display of "OOOx" indicates an active call sequence of phone numbers: 1, 2 and 3. Phone number 4 is disabled and will not be called.

To change the setting press ENTER .

Scroll through the menu until the required '**Phone No._**' (and the current setting) is displayed.

To change the setting press ESC .

Press 1 to enable the phone number, or

Press 3 to disable the phone number.

Press ESC to return to the top level Voice Dialler Setup menu.

TEL CONFIRM TIMES

This sets the number of acknowledged phone numbers required to stop the Voice Dialler. (For example, if set to "2" then the dialler sequence will continue until an acknowledgment signal is received from 2 different numbers).

Default setting: 1

Scroll through the menu until '**4-6 Tel Confirm Times**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the required number of confirmations (1-4).

Press ENTER to save and exit, or

Press ESC to exit without saving.

CALL ATTEMPTS

This sets the maximum number of times that the dialler will attempt to contact each enabled telephone number in the call routing sequence.

Default setting: 3

Scroll through the menu until '**4-7 Call Attempts**' (and the current setting) is displayed.

To change the setting press [ENTER] .

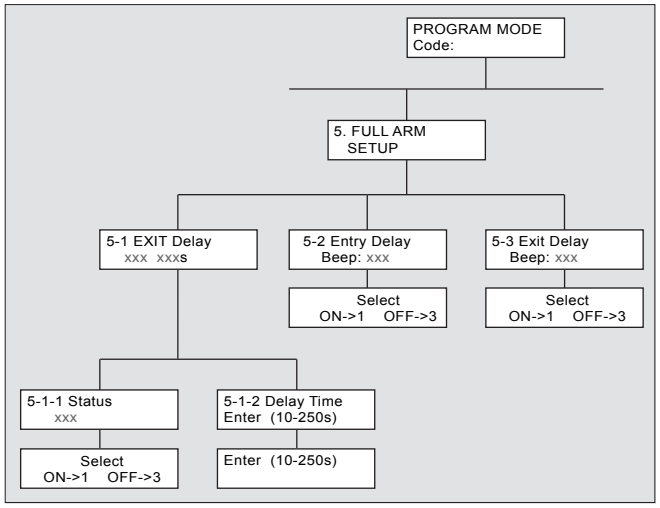
Enter the required number of dial attempts (1-5).

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

FULL ARM SETUP

The parameters in this menu control the systems Exit-Delay period and the Entry/Exit Delay warning beeps during Full Arm mode.



Scroll through the programming menu until **'5. FULL ARM SETUP'** is displayed and press [ENTER] .

Note: After configuring 'Full Arm' press [ESC] to return to the top level programming menu.

EXIT-DELAY PERIOD

Scroll through the menu until **'5-1 EXIT-DELAY'** (and the current setting) is displayed.

To change the settings press [ENTER] .

On/Off Status

Default setting: ON

Scroll through the menu until **'5-1-1 Status'** (and the current setting) is displayed.

To change the setting press [ENTER] .

Press [1] to enable the Exit-Delay, or

Press [3] to disable the Exit-Delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'5-1-2 Delay Time'** (and the current setting) is displayed.

To change the settings press [ENTER] .

Enter the required delay period (10 to 250 seconds).

Press [ENTER] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level Full Arm Setup menu.

ENTRY-DELAY BEEPS

Allows the Entry-Delay warning beeps when activating Full Arm to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '**5-2 Entry Delay Beep**' (and the current setting) is displayed.

To change the setting press [ENTER] .

Press [1] to enable the beeps, or

Press [3] to disable the beeps.

EXIT-DELAY BEEPS

Allows the Exit-Delay warning beeps when activating Full Arm to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '5-**3 Exit Delay Beep**' (and the current setting) is displayed.

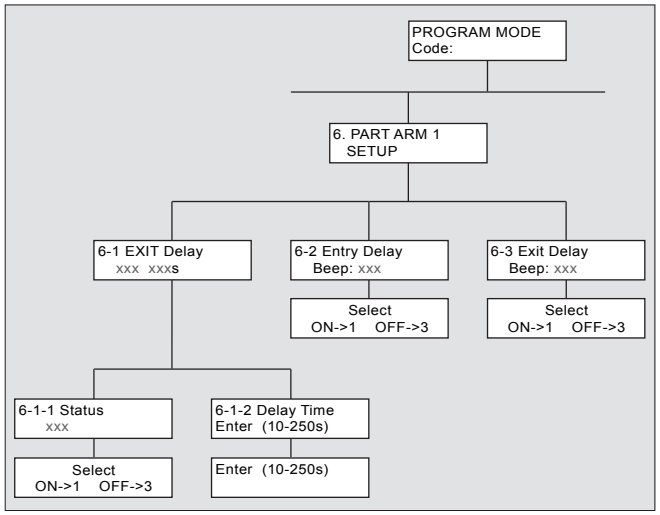
To change the setting press [ENTER] .

Press [1] to enable the beeps, or

Press [3] to disable the beeps.

PART-ARM 1 SETUP

The parameters in this menu control the systems Exit-Delay period and the Entry/Exit Delay warning beeps during Part-Arm 1 mode.



Scroll through the programming menu until **'6. PART ARM 1 SETUP'** is displayed and press ENTER.

Note: After configuring Part Arm 1 press **ESC** to return to the top level programming menu.

EXIT-DELAY PERIOD

Scroll through the menu until **'6-1 EXIT-DELAY'** (and the current setting) is displayed.

To change the settings press ENTER.

On/Off Status

Default setting: ON

Scroll through the menu until **'6-1-1 Status'** (and the current setting) is displayed.

To change the setting press **ESC**.

Press 1 to enable the Exit-Delay, or

Press 3 to disable the Exit-Delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'6-1-2 Delay Time'** (and the current setting) is displayed.

To change the settings press ENTER.

Enter the required delay period (10 to 250 seconds).

Press ENTER to save and exit, or

Press **ESC** to exit without saving.

Press **ESC** to return to top level Part Arm 1 Setup menu.

ENTRY-DELAY BEEPS

Allows the Entry-Delay warning beeps when activating Part-Arm 1 to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '**6-2 Entry Delay Beep**' (and the current setting) is displayed.

To change the setting press ENTER.

Press 1 to enable the beeps, or

Press 3 to disable the beeps.

EXIT-DELAY BEEPS

Allows the Exit-Delay warning beeps when activating Part-Arm 1 to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '**6-3 Exit Delay Beep**' (and the current setting) is displayed.

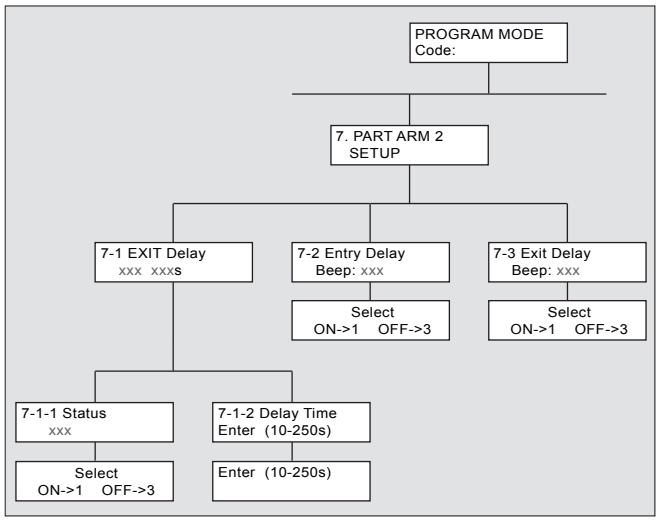
To change the setting press ENTER.

Press 1 to enable the beeps, or

Press 3 to disable the beeps.

PART-ARM 2 SETUP

The parameters in this menu control the systems Exit-Delay period and the Entry/Exit Delay warning beeps during Part-Arm 2 mode.



Scroll through the programming menu until **'7. PART ARM 2 SETUP'** is displayed and press ENTER .

Note: After configuring Part Arm 2 press ESC to return to the top level programming menu.

EXIT-DELAY PERIOD

Scroll through the menu until **'7-1 EXIT-DELAY'** (and the current setting) is displayed.

To change the settings press ENTER .

On/Off Status

Default setting: ON

Scroll through the menu until **'7-1-1 Status'** (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable the Exit-Delay, or

Press 3 to disable the Exit-Delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'7-1-2 Delay Time'** (and the current setting) is displayed.

To change the settings press ENTER.

Enter the required delay period (10 -250 seconds).

Press ENTER to save and exit, or

Press ESC to exit without saving.

Press ESC to return to top level Part Arm 2 Setup menu.

ENTRY-DELAY BEEPS

Allows the Entry-Delay warning beeps when activating Part-Arm 2 to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '**7-2 Entry Delay Beep**' (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable the beeps, or

Press 3 to disable the beeps.

EXIT-DELAY BEEPS

Allows the Exit-Delay warning beeps when activating Part-Arm 2 to be switched ON or OFF.

Default Setting: ON

Scroll through the menu until '**7-3 Exit Delay Beep**' (and the current setting) is displayed.

To change the setting press ENTER .

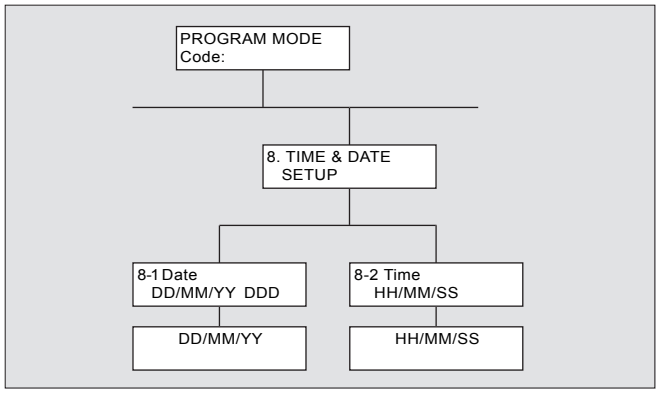
Press 1 to enable the beeps, or

Press 3 to disable the beeps.

TIME & DATE SETUP

The parameters in this menu allow the systems clock and calendar (required for the Event Log) to be configured.

Note: The clock will require updating to reflect any time changes due spring/autumn daylight saving.



Scroll through the menu until '**8 TIME & DATE SETUP**' is displayed and press ENTER .

Note: After configuring the Time and Date press **ESC** to return to the top level programming menu.

DATE

Scroll through the menu until '**8-1 Date**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the correct date in the format 'dd/mm/yy'.

Press ENTER to save and exit, or

Press **ESC** to exit without saving.

TIME

Scroll through the menu until '**8-2 Time**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the correct time (hh:mm:ss) using the 24 hour clock format.

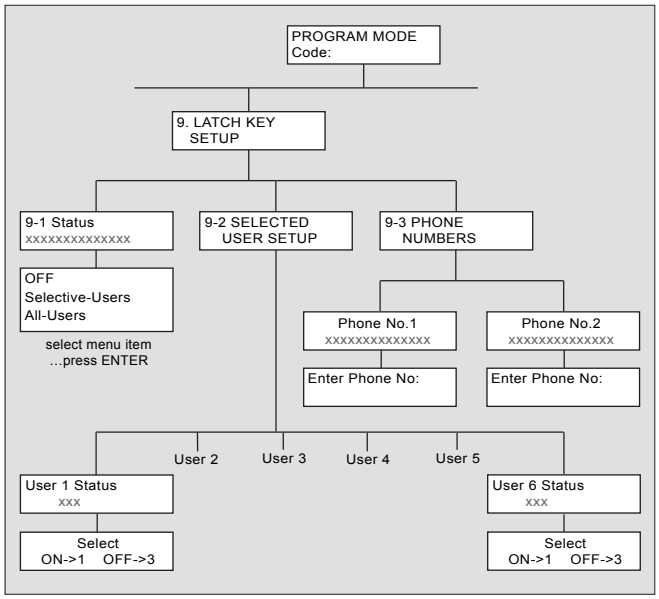
Press ENTER to save and exit, or

Press **ESC** to exit without saving.

LATCH KEY SETUP

The parameters in this menu configures which users the Latch Key feature operates with and the telephone numbers that the system dials when the Latch Key is activated.

Note: For the Latch Key to operate correctly the telephone "Dial Method" (see System Setup) and the User "Latch Key Message", (see User Setup) must be correctly set and programmed.



Scroll through the top level programming menu until '**9. LATCH KEY SETUP**' is displayed and press ENTER.

Note: After completing the Latch Key Setup press **ESC** to return to the top level programming menu.

STATUS

This controls which users the Latch Key facility will operate with. If set to 'Selected-Users' the Latch Key will only operate with those users enabled in section '9-2 Selected User Setup'.

Default Setting: OFF

Scroll through the menu until '**9-1 Status**' (and the current setting) is displayed.

To change the setting press ENTER .

Scroll through the menu options until the required setting is displayed.

Press ENTER to save and exit, or

Press **ESC** to exit without saving.

SELECTED-USERS SETUP

This configures the individual users that the Latch Key operates with when set to 'Selected-Users'.

Default setting: OFF

Scroll through the menu until '**9-2 SELECTED USER SETUP**' is displayed and press ENTER .

Scroll through the menu until the required '**User _ Status**' (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable the user in Latch Key, or

Press 3 to disable the user in Latch Key.

After configuring all users as required press ESC to return to the top level Latch Key Setup menu.

TELEPHONE NUMBERS

Scroll through the menu until '**9-3 PHONE NUMBERS**' is displayed and press ENTER .

Scroll through the menu until the required '**Phone No._**' (and the current setting) is displayed.

To change the number press ENTER .

Enter the new phone number (32 digits max.).

Notes:

Press to insert a 3.5 seconds pause in the dialling sequence.

Press to move the cursor left.

Press to move the cursor right.

Press to delete the number under the cursor.

Press (and hold) to erase the entire number.

Press ENTER to save and exit, or

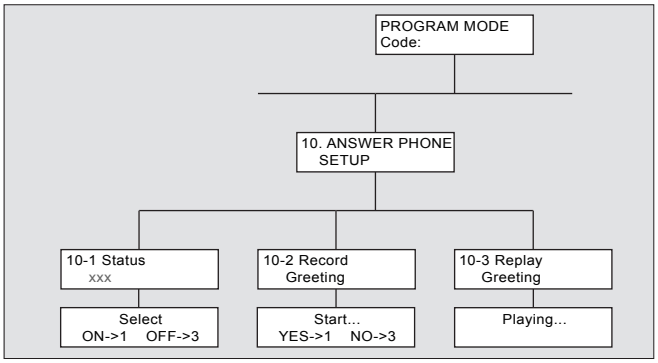
Press ESC to exit without saving.

After programming all required phone numbers press ESC to return to the top level Latch Key Setup menu.

ANSWERPHONE SETUP

The parameters in this menu allow the systems answerphone facility to be configured and the greeting message to be recorded.

Note: For the answerphone to operate correctly the "Dial Method" and "Rings to Answer Phone" (see system setup) must be correctly programmed.



Scroll through the programming menu until '**10. ANSWER PHONE SETUP**' is displayed and press ENTER .

Note: After completing the answerphone Setup press ESC to return to the top level programming menu.

ANSWERPHONE ON/OFF STATUS

Default Setting: OFF

Scroll through the menu until '**10-1 Status**' (and the current setting) is displayed.

To change the setting press ENTER .

Press 1 to enable the answerphone, or

Press 3 to disable the answerphone.

RECORD ANSWERPHONE GREETING

Scroll through the menu until '**10-2 Record Greeting**' is displayed.

To record a new greeting message press ESC .

Press 1 to start the voice recorder, (max. duration: 12 seconds).

After recording, press ESC to stop the recorder and cancel any remaining recording time. The new message will then be replayed.

Press 3 to exit without changing.

REPLAY ANSWERPHONE GREETING

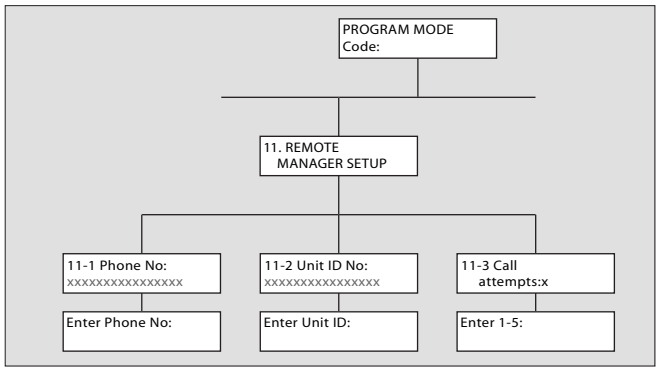
Scroll through the menu until '**10-3 Replay Greeting**' is displayed.

To replay the recorded greeting message press ENTER .

REMOTE MANAGER SETUP

The parameters in this menu configure the system telephone dialler to interface to the Alarm Monitoring Service following the occurrence of an appropriate alarm or system event.

Note: For the telephone dialler to operate correctly with the Alarm Monitoring Service the "Dial Method" and "Dialler Mode" (see system setup) must be correctly set and programmed.



Scroll through the menu until '**11. REMOTE MANAGER SETUP**' is displayed and press ENTER .

Note: After completing the Remote Manager setup press ESC to return to the top level programming menu.

TELEPHONE NUMBER:

Scroll through the menu until '**11-1 Phone No:**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the new phone number (32 digits max.).

Notes:

Press 🔑 to insert a 3.5 seconds pause in the dialling sequence.

Press 🔓 to move the cursor left.

Press to move the cursor right.

Press to delete the number under the cursor.

Press (and hold) to erase the entire number.

Press ENTER to save and exit, or

Press ESC to exit without saving.

UNIT ID

Scroll through the menu until '**11-2 Unit ID No:**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the 4 digit System ID Code obtained from the Alarm Monitoring Service provider. (This is not to be confused with the System House Code or any User Access Codes).

Notes:

To enter code B, press 🔑 , 1

To enter code C, press 🔑 , 2

To enter code D, press 🔑 , 3

To enter code E, press 🔑 , 4

To enter code F, press 🔑 , 5

Press ENTER to save and exit, or

Press ESC to exit without saving.

CALL ATTEMPTS

This sets the maximum number of times that the dialler will attempt to contact the Alarm Monitoring Service.

Default setting: 3

Scroll through the menu until '**11-3 Call Attempts**' (and the current setting) is displayed.

To change the setting press ENTER .

Enter the required number of call attempts (1-5).

Press ENTER to save and exit, or

Press ESC to exit without saving.

OPERATING INSTRUCTIONS

When leaving the premises, the system must be Armed. However, before doing so, check that all windows are closed and locked, all protected doors are closed and PIR Detectors are not obstructed. Ensure that pets are restricted to areas not protected by PIR Detectors.

The system has 3 arming modes, ARM, Part-Arm 1 and Part-Arm 2. The Part-Arm modes allow for selected zones to be left in a Disarmed state whilst the remainder of the system is Armed.

When the system is Armed the mode being activated will be displayed on the screen followed by the status of the Latch Key feature. The programmed system exit-delay will be displayed and counted down on the screen. If exit-delay beeps are enabled the panel will beep with the beep rate increasing in steps as the exit-delay expires. At the end of the Exit period all active zones will be fully Armed. By this time the user must have left the property and closed the final protected door.

If while the system is armed a detector on an active zone is triggered the programmed entry-delay for that zone will be displayed and counted down on the screen. If entry-delay beeps are enabled the panel will beep with the beep rate increasing in steps as the entry-delay expires. If the system has not been Disarmed when the entry-delay expires a Full Alarm will occur. (**Note:** if the entry-delay for the zone triggering the alarm is disabled then an alarm will occur immediately the detector is triggered instead). Details of the zone event that triggered the alarm will be recorded in the Event Log.

At the end of the set alarm duration the Siren and Control Panel alarms will stop and the system will automatically re-Arm itself, (subject to the conditions of the Zone Lockout feature).

Notes:- To conserve power and maximise battery life the PIR detector will only detect movement if there has been no movement detected within the previous 2 minutes.

- If the Solar Siren is fitted and the 3 minute limit is enabled then the external siren will shut down when the programmed alarm duration expires or after 3 minutes, whichever occurs first.

Voice Dialler

If an alarm is triggered and the Voice dialler is activated then the first enabled phone number in the dialling sequence will be called and the recorded alarm message will be replayed for the programmed “Play Time” period. The recipient should acknowledge the message by pressing the [*] button on their telephone keypad to shut down the call sequence. If an acknowledgment signal is not received, then the next enabled number in the call sequence will be called. The dialler will continue calling each enabled number in turn until either all numbers in the sequence have been dialled the set number of times or the dialling sequence is cancelled by an acknowledged signal from a recipient.

ARMING THE SYSTEM

The system can be set in FULL ARM mode using either the Remote Control or the Control Panel as follows:

a. Press on the Remote Control, or

b. Press , [?] [?] [?] [?] , [ENTER]

User Access Code

on the Control Panel.

PART ARMING THE SYSTEM: PART-ARM 1

The system can be set in PART-ARM 1 mode using either the Remote Control or the Control Panel as follows:

a. Press on the Remote Control, or

b. Press , [?] [?] [?] [?] , [ENTER]

User Access Code

on the Control Panel.

PART ARMING THE SYSTEM: PART-ARM 2

The system can be set in PART-ARM 2 mode using either the Remote Control or the Control Panel as follows:

a. Press , on the Remote Control, or

b. Press , [?] [?] [?] [?] , [ENTER]

User Access Code

on the Control Panel.

DISARM

The system can be Disarmed using either the Remote Control or the Control Panel as follows:

a. Press on the Remote Control, or

b. Press [?] [?] [?] [?] [ENTER]

User Access Code

on the Control Panel.

If when the system is disarmed the 'ALARM MEM' LED is flashing and the panel beeps every 10 seconds, this indicates that an alarm has occurred.

To stop the LED flashing and panel beeping either

a. Press ESC. or

b. Inspect the Event Log to find out the cause of the alarm

Note: If the system is Disarmed with the Remote Control the Siren will beep twice, (unless the warning beeps have been disabled on the Siren).

QUICK SET

The Quick Set function fully arms the system with a 5 second exit delay:-

Press 0 , ? ? ? ? , ENTER

User Access Code

Alternatively, pressing 0 during the exit-delay period of any armed mode (including Part-Arm 1 and Part-Arm 2) will reset the remaining exit-delay period to 5 seconds.

OMIT ZONE

To temporarily omit a zone and disable it during the next armed session:-

Press 5 , ? ? ? ? , ENTER

User Access Code

Scroll through the menu to select the required zone. The current zone setting will be displayed.

To change the setting press ENTER

Press 1 to omit the zone, (i.e. zone omit = ON).

Press 3 to re-enable the zone, (i.e. zone omit = OFF).

After configuring the zones to be omitted as required, press ESC to return to Standby mode.

Note: Omitting a zone will only affect the next armed session. When the system is disarmed the omitted zones will automatically be re-enabled ready for the next armed session.

PERSONAL ATTACK (PA) ALARM

An alarm can be immediately triggered at any time (whether the system is Armed or Disarmed) in the event of threat or danger by activating a Personal Attack (PA) switch on either the Remote Control or the Control Panel as follows:

a. Slide the Personal Attack switch on the Remote Control upwards, or

b. Press and hold the 9 button for approximately 3 seconds on the Control Panel.

The alarm will continue either for the alarm duration when the system will automatically reset or until the system is disarmed.

DEVICE TAMPER

If the battery cover of any device (except a Remote Control) is removed or if the Siren or Control Panel are removed from the wall then an alarm will immediately occur (unless the system is in Test or Program modes), even if the system is Disarmed.

The Alarm will sound until the set alarm duration time expires or the system is Disarmed from the Remote Control or Keypad. The 'ALARM MEM' LED on the Control Panel will flash and the panel will beep every few seconds to indicate an alarm has occurred.

Note: The Tamper protection facility on the Siren operates independently of the Control Panel. If the Tamper on the Siren is activated this will not be indicated at the Control Panel.

CHIME

The Chime facility can only be operated with the system in Standby mode.

Press 2 to toggle the Chime facility between ON and OFF.

EVENT LOG

The Event Log will store the time, date and event type of the last 50 system 'events'.

A new system event will be indicated by the 'ALARM MEM' LED flashing and the panel beeping every 10 seconds.

To cancel the LED and stop the beeping you must access the Event Log or press ESC.

Press 8 ? to access the Event Log, (from Standby Mode only).

The Event Log will automatically display each event in turn starting with the most recent. The data for each event is shown on 2 screens with each screen being displayed for 5 seconds.

Use ↑ and ↓ to manually scroll through the events.

Press ESC to return to Standby.

LEAVING A VOICE MEMO MESSAGE

To record a message at the Control Panel using the Voice Memo facility, proceed as follows:

Press 1

Press ENTER to start recording.

Press ESC to stop the recorder and skip the remaining message time, (max. message duration is 30 seconds),

Note: the system can only store a maximum of 6 messages, (including answerphone messages). If there is no spare message capacity then it will not be possible to record any message until one has been deleted.

Messages may be accessed or deleted either at the Control Panel (see Replay Messages) or via the "Remote Phone Access and Control" facility.

REPLAYING AND DELETING MESSAGES AT THE CONTROL PANEL

The presence of any unread memos or answerphone messages is indicated on the Control Panel by the 'MESSAGE' LED being illuminated.

Messages may be accessed at the Control Panel as follows:

Press 4 , ? ? ? ? , ENTER

User Access Code

Messages are replayed in the order they are received.

Press ESC during a message to skip to the end of the message.

At the end of each message there will be the option of deleting the message just heard. To delete the message:

Press 1 to delete the message

Press 3 to re-confirm deletion of the message.

Note: Press 1 at either stage to cancel delete and move on to the next message.

After all messages have been replayed the system will automatically return to Standby Mode.

REMOTE PHONE ACCESS AND CONTROL

The Remote Phone Access and Control facility, if enabled, allows you to dial into the system and recover messages and/or to monitor/control the basic alarm system functions.

The Control Panel will answer the call after the set number of rings and emit 3 beeps on the phone line.

Enter a User Access Code on the telephone keypad.

A valid User Access Code will be acknowledged with 1 long beep.

An incorrect code will be acknowledged by 2 short beeps.

If a User Access Code is not entered within 30 seconds or is entered incorrectly 3 times then the Control Panel will automatically disconnect the line.

Note: If the internal answerphone is also enabled and there is space for a message then the call will be answered with the answerphone greeting message. The User Access Code should be entered before the greeting message finishes, otherwise the answerphone message recorder will be activated.

Double Dial-In for Operation with an External Answerphone:

If the Remote Access and Control feature is to be used and the system is operating in conjunction with an external answerphone then

1. The internal answerphone will be disabled.
2. Remote Phone Access and Control must be enabled.
3. The number of 'rings to answer' for the Control Panel must be greater than that of the external answerphone

To access the Remote System Control facility the Control panel has a 'double dial-in' feature to enable the Control Panel to pick-up the phone call before the external answerphone cuts in. The 'double dial-in' procedure operates as follows:

1. Dial up the system and hang up after 1 or 2 rings.
2. Wait a few seconds and then redial the system within 20 seconds, the system will answer the phone after 1 ring.
3. Enter the User Access Code as normal.

Remote Access and Control Functions:

The following functions may be access via the remote telephone. The system will acknowledge each signal with a single long beep.

Press **1** to initiate FULL ARM mode.

Press **2** to initiate Part-Arm 1 mode.

Press **3** to initiate Part-Arm 2 mode.

Press **4** to Disarm the system.

Press **5** to turn the Siren OFF.

Press **6** to turn the Siren ON.

Press **7** to Listen-In via the Control Panel microphone.

Press **#** to stop Listen-In.

Note: Listen-In will be automatically cancelled after 5 minutes.

Press **8** to interrogate the system status. The status will be indicated by the following tones which are repeated at 2 second intervals for 15 seconds.

1 beep	system Armed
2 beeps	system Part-Armed
3 beeps	Alarm triggered
1 long beep	system Disarmed

Press **9** to replay messages.

Press **0** to delete all messages.

Press **#** to end the session and disconnect the Control Panel line.

SIREN SERVICE MODE

In order to remove the Solar Siren from the wall to change the batteries, it is necessary to place the Siren into Service mode to prevent the Tamper switch on the Siren operating and triggering an Alarm. When you have completed any alterations to the system you must remember to switch the Siren back into Operating Mode.

The Siren can be switched into Service mode using either the Remote Control or Control Panel as follows:

Remote Control:

Press and hold the button for approx. 6 seconds.

The Siren will produce 2 short beeps as the button is pressed followed by a single long beep approximately 6 seconds later to indicate that it has switched into Service Mode.

Control Panel:

With the system in Standby with the Power LED ON:

Press

User Access Code

to enter Test mode. The Arm and Part-Arm LEDs will flash.

Press **5** to switch the Siren between Service Mode and Operating Mode. LED 5 will illuminate to show that the appropriate signal is being transmitted.

The Siren will produce 2 short beeps as the button is pressed followed by a single long beep approximately 6 seconds later to indicate that it has switched into Service Mode.

Press **ESC** to return to Standby mode.

SIREN OPERATING MODE

The Siren can be switched back into operating mode using either the Remote Control or Control Panel as follows:

Remote Control:

Press and hold the button on the Remote Control for approximately 6 seconds.

After approximately 6 seconds the Siren will produce a single long beep to indicate that it has switched into operating mode in a Disarmed state. The button should be released during or immediately after the long beep, otherwise the system will switch into an Armed state.

Control Panel:

With the system in Standby Mode with the Power LED ON.

Press

User Access Code

to enter Test mode. The Arm and Part-Arm LEDs will flash.

Press 5 to switch the Siren between Service Mode and Operating Mode. LED 5 will illuminate to show that the appropriate signal is being transmitted.

After approximately 6 seconds the Siren will produce a single long beep to indicate that it has switched into Operating Mode in a Disarmed state.

Press ESC to return to Standby mode.

BATTERY MONITORING

All system devices continuously monitor their battery condition. When a low battery indicator is activated the device will continue to operate normally for up to 2 weeks (depending upon system use). However, the battery for that device should be replaced as soon as possible.

In addition if any PIR or Magnetic Contact Detector has a low battery status it will be recorded by the Control Panel and a message stored in the Event Log.

In addition a low battery status on any PIR or Magnetic Contact Detector will be recorded by the Control Panel and stored in the Event Log.

Note: Before removing the battery cover on any device to replace the battery ensure that the system is put into Test mode to avoid initiating a Full Alarm.

The low battery indication in each system device is as follows:

Control Panel

During a period of mains supply interruption the Control Panel will be powered by the rechargeable backup batteries.

Under normal battery conditions the Power LED on the panel will flash at 1 second intervals. However, under low battery conditions the Power LED will flash at 3 second intervals.

Remote Control

When the Remote Control is operated under low battery conditions the transmit LED will continue to flash after the button has been released.

Under normal battery conditions the LED will extinguish within 2 seconds of the button being released.

PIR Movement Detector

Under low battery conditions the LED behind the detector lens will flash when movement is detected to indicate that the battery needs to be replaced.

Under normal battery conditions the LED does not illuminate unless the PIR Detector is in Walk Test mode.

Magnetic Contact Detector

When the Detector is activated, under low-battery conditions the LED will be illuminated for approximately 1 second as the door/window is opened.

Under normal battery conditions the LED does not illuminate as the Detector is operated, (unless the Detector is in Test Mode with the battery cover removed).

MAINTENANCE

Your Alarm System requires very little maintenance. However, a few simple tasks will ensure its continued reliability and operation.

IMPORTANT: If, for any reason you have to completely power-down the system (e.g. to move the system to new premises), first put the system into Service Mode before removing the Siren cover and disconnecting the main rechargeable and initial power-up batteries. Ensure that the solar panel is covered with a lightproof material to prevent it being energised, otherwise the solar panel may still power the siren.

SOLAR SIREN

1. It is recommended that the solar panel on the top of the Siren housing should be cleaned at least twice a year, preferably in the Spring and Autumn, using a soft damp cloth. Do not use abrasive, solvent based or aerosol cleaners. Do not attempt to clean inside the unit or allow water to enter the unit.

This will ensure that the solar panel does not become affected by the build up of excessive dirt and receives all the available light.

2. The Siren should not be left for long periods with the batteries connected, unless the unit is able to receive sufficient light to maintain the battery charge. Failure to maintain charge to the unit will result in the rechargeable battery running unacceptably low. Should this occur, the unit must be recharged from a 7.5Vdc/ 100mA supply (e.g. from a mains adaptor power supply). When re-powering the Siren fit a new 9V PP3 leakproof Alkaline power-up battery to ensure that the Siren receives sufficient power until the solar panel can recharge the main battery.

3. The main rechargeable battery has a typical life of 3 to 4 years and needs no maintenance during this period, provided the battery is kept charged. The battery will be damaged if it is stored in a discharged state for long periods.

IMPORTANT: Before removing the Siren from the wall ensure that the Siren is first switched into Service Mode to prevent the Tamper switch operating and triggering an alarm, (see page 22). The Siren must be switched back into Operating Mode, otherwise the system cannot be Armed.

CONTROL PANEL

The rechargeable batteries have a typical life in excess of 3 to 4 years and need no maintenance during this period, provided they are kept charged. The batteries will be damaged if they are stored in a discharged state for long periods.

DETECTORS AND REMOTE CONTROL

The Detectors require very little maintenance. The batteries should be replaced once a year or when a low battery status is indicated.

BATTERIES

Note: Before removing the battery cover on any device to replace the battery ensure that the system is switched into Test Mode to avoid triggering an alarm.

The specifications for replacement batteries are as follows:

Remote Controls: 1 x 3V CR2032 Lithium Cell (or equivalent)
Magnetic Contact Detectors 2 x 3V CR2032 Lithium Cells (or equivalent)
PIR Movement Detectors 1 x 9V PP3 Alkaline Battery

Note: Rechargeable batteries should NOT be fitted to any detector.

DISPOSAL

At the end of their useful life the packaging, product and batteries should be disposed of via a suitable Recycling Centre. Do not dispose of with your normal household waste. **DO NOT BURN**.

The Rechargeable Batteries contain Sulphuric Acid – **DO NOT ATTEMPT TO OPEN THE CASING**.

ALARM RECORD

Complete the following information during installation for future reference, when adding to your system and to assist trouble shooting.

			Zone Settings						
Zone	**Detector Type(s)**	**Location**	**Type**	**Final-Exit / Walk-Through settings**	**Entry Delay**	**Chime**	**Arm**	**Part-Arm 1**	**Part-Arm 2**
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

You may make a note of your User Access Codes and Installer Access Code below.

User Access Codes

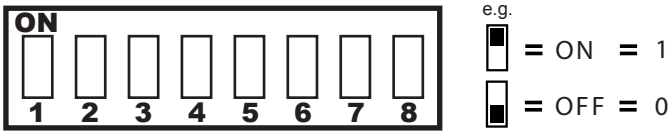
User 1: _____ User 2: _____ User 3: _____

User 4: _____ User 5: _____ User 6: _____

Master User: _____

System House Code

Use this diagram to record your House Code:



Voice Dialler Phone Numbers

Phone No. 1: _____ Phone No. 2: _____

Phone No. 3: _____ Phone No. 4: _____

Latch Key Phone Numbers

Phone No. 1: _____ Phone No. 2: _____

Remote Security Manager Service

Phone No: _____ System ID No: _____

This information is confidential and should be kept in a safe location.

TROUBLE SHOOTING *Symptom* / Recommendation

Control Unit not working – Power LED OFF or flashing.

1. Mains power failure - check if other electrical circuits are operable.
2. Check that mains adaptor is plugged in and socket is switched ON.
3. Check that DC jack plug from mains adaptor is connected in Control Panel.
4. Check fuse/MCB in Consumer Unit on the circuit serving the Control Panel.

Note: Before replacing any fuses or resetting the MCB, the cause of the failure should be investigated and rectified.

Control Unit "Low Battery" LED flashing.

1. Check all PIR Detectors for low battery indication, (i.e. LED behind detection lens flashes when movement detected). Renew batteries as required.

Control Unit "Low Battery" LED illuminated.

1. Check all Magnetic Contact Detectors for low battery indication, (i.e. LED on Detector illuminates for 1 second when detector triggered).

Control Unit not accepting User Access Code.

1. Pause between key depressions too long. Do not pause for more than 3 seconds between pressing keys.
2. Incorrect code entered. Allow 5 seconds to elapse before re-entering correct code.
3. Reset to factory defaults and reprogram system.

Siren not responding to detector.

1. Detector battery low - Replace battery.
2. Siren in Service Mode – switch to Operating Mode using Remote Control or Control Panel.
3. Ensure 'House Code' is correctly set to the same code as all other system devices.
4. Ensure detector is within effective radio range of Siren and equipment is not mounted close to metal objects.

Detection Zone triggered (LED flashing) but no alarm is sounding.

1. Entry/Exit delay still running and not yet expired.
2. Alarm duration period has already expired and system has reset.
3. Alarm duration programmed to "no alarm".

Siren and Indicator LEDs operating but no alarm at Control Panel.

1. Siren Tamper switch activated. Check security of Siren fixing to wall and adjustment of anti-tamper switch to ensure switch is fully depressed.
2. Siren Jamming Detection circuit operated, (jamming detection at Control Panel disabled).

Siren not responding to Control Panel.

1. Ensure 'House Code' is correctly set to the same code as all other system devices.
2. Ensure main Siren configuration switch is set to SIREN.
3. Incorrect User Access code being entered at Control Panel.
4. Ensure Siren is within effective radio range of Control Panel and equipment is not mounted close to metal objects.
5. Siren rechargeable battery discharged
   a. Clean Solar Panel.
   b. Check age of rechargeable battery – replace if at end of useful life.
   c. Fit new initial power-up battery and re-power up Siren.

Full Alarm occurs when system has not been triggered by an intruder or is disarmed.

1. Tamper switch activation
   a. check all detector battery covers to ensure correctly fitted.
   b. check Control Panel and Siren are securely mounted to the wall and Tamper switch is closed.
2. Personal Attack Alarm operated from a Remote Control or Control Panel.
3. Jamming Detection circuit operated.

LED on Remote Control not illuminating, or is dim when unit is operated.

1. Ensure battery is fitted with correct polarity.
2. Ensure battery holder connections are making good contact with the battery.
3. Battery flat - replace battery.

PIR Detector false alarming.

1. Ensure that the detector is not pointing at a source of heat or a moving object.
2. Ensure that the detector is not mounted above a radiator or heater.
3. Ensure that the detector is not facing a window or in direct sunlight.
4. Ensure that the detector is not in a draughty area.
5. Sensitivity set to HIGH – reset to LOW Sensitivity. (i.e. DIP 5 of SW3 OFF).

PIR Detector not detecting a person's movement.

1. Ensure the battery clip is securely connected.
2. Ensure 'House Code' is correctly set to the same code as all other system devices.
3. Sensitivity set too LOW – reset to HIGH Sensitivity. (i.e. DIP 5 of SW3 ON).
4. Ensure DIP switches 1, 2 and 3 of SW3 are correctly set, according to required zone.

5. Ensure that detector is mounted the correct way up, (i.e. with detection window at the bottom).
6. Ensure that the detector is mounted at the correct height, (i.e. 2-2.5 metres).
7. Allow up to 3 minutes for detector to stabilize and become fully operational. Leave the area for this period.
8. Ensure detector is within effective radio range of the Control Panel and is not mounted close to metal objects which may interfere with Radio transmission.

PIR Movement Detector LED flashes on detection of movement, (device in normal operation mode).

1. Ensure that the detector is configured for normal operation, (i.e. DIP switch 4 of SW3 is OFF).
2. Low battery - replace battery.

Magnetic Contact Detector not working.

1. Ensure that Magnet is correctly positioned in relation to Detector and that the gap between magnet and detector is less than 10mm.
2. Ensure batteries are fitted with correct polarity.
3. Ensure battery holder connections are making good contact with the batteries and PCB.
4. Ensure 'House Code' is correctly set to the same code as all other system devices.
5. Ensure DIP switches 9, 10 and 11 are correctly set, according to required zone.
6. If there is no additional wired Magnetic Contact connected ensure jumper link is fitted.
7. If an additional wired Magnetic Contact is connected:
   a. Ensure jumper link is removed.
   b. Check that both contacts are closed.
   c. Check that additional contact is correctly wired.

   Note: If an additional contact is used then the doors/windows protected by both the main wirefree detector and the additional wired detector must be closed when either one is opened. If one of the doors/windows is already open then the opening of the other door/window will not be detected.
8. Ensure detector is within effective radio range of Control Panel and is not mounted close to metal objects which may interfere with Radio transmission.

Magnetic Contact Detector false alarming

1. Ensure that Magnet is correctly positioned in relation to Detector.
2. Ensure that gap between magnet and detector is less than 10mm.
3. Tamper switch below battery cover not depressed - check battery cover is fitted correctly and that fixing lugs are not broken.

LED on Magnetic Contact Detector illuminating when door or window is opened

1. Low battery - replace batteries.

Voice-Dialler Not Responding to Alarm

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Incorrect phone numbers programmed.
4. Phone numbers disabled in dialling sequence.
5. Alarm messages not recorded.

Answerphone not responding or recording messages.

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Answerphone disabled.
4. No space in message store, 6 messages already recorded.

Cannot record Voice-Memo message at Control Panel.

1. No space in message store, 6 messages already recorded.

Control Unit Not Contacting Remote Manager Service on Alarm

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Incorrect phone number for Remote Security Manager Service programmed.
4. Incorrect system ID number for Remote Security Manager Service programmed.
5. Remote Security Manager Service not commissioned or signed up.

Remote Phone Access and Control facility not functioning:

1. Telephone line not connected or faulty - check phone line with another phone.
2. Remote Access disabled.
3. Incorrect User Access Code entered.

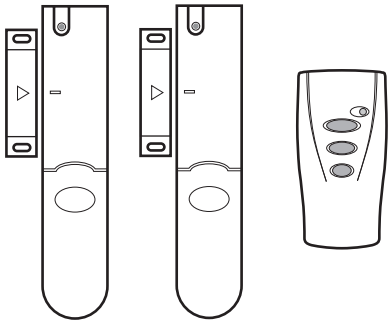
Latch Key Not Responding when system Disarmed

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Latch Key disabled.
4. Latch Key set to Selected-Users and not enabled for User that is Disarming the system.
5. No Latch Key phone numbers programmed.

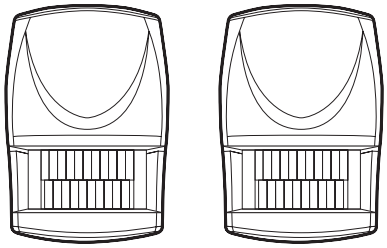
EXTENDING YOUR ALARM SYSTEM

The following additional accessories are available to enhance your system and provide further protection and a higher level of security where required.

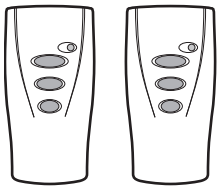
ACCESSORIES



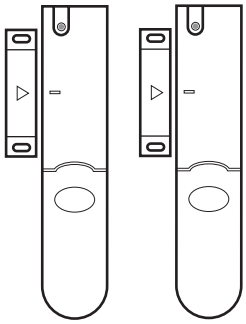
SU1
ACCESSORY SET
2 x Magnetic Contact Detectors and 1 x Remote Control Unit.



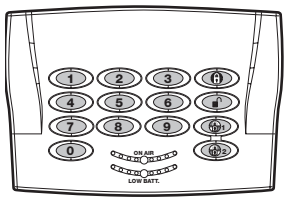
SU2
PIR MOVEMENT DETECTORS
2 x PIR Movement Detectors.



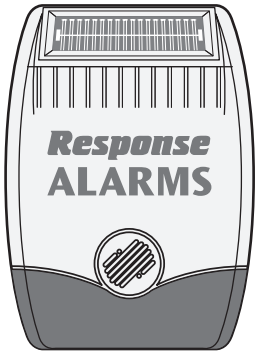
SU3
REMOTE CONTROL UNITS
2 x Remote Control Units.



SU4
MAGNETIC CONTACT DETECTORS
2 x Magnetic Contact Detectors.



SU5
REMOTE KEYPAD
1 x Remote Keypad.



SU6
EXTERNAL SOLAR SIREN
1 x External Solar Siren.

GUARANTEE

Novar ED&S undertakes to replace or repair at its discretion goods (excluding non rechargeable batteries) should they become defective within 1 year solely as a result of faulty materials and workmanship. Understandably if the product has not been installed, operated or maintained or maintained in accordance with the instructions, has not been used appropriately or if any attempt has been made to rectify, dismantle or alter the product in any way the guarantee will be invalidated.

The guarantee states Novar ED&S entire liability. It does not extend to cover consequential loss or damage or installation costs arising from the defective product. This guarantee does not in any way affect the statutory or other rights of a consumer and applies to products installed within the UK and Eire only.

If an item develops a fault, the product must be returned to the point of sale with:

1. Proof of purchase.

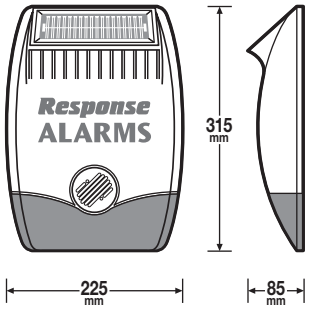
2. A full description of the fault.

3. All relevant batteries (disconnected).

Friedland is a trademark of Novar ED&S.

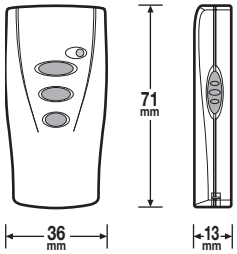
COMPONENT SPECIFICATION

External Solar Siren



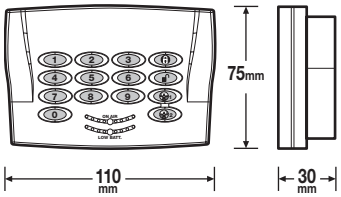
- RF operating frequency: 433MHz
- Sealed lead acid battery 6V/1.2Ahr
- Solar Panel 7.5V - Charge Rate typically 60mA
- Operation time in complete darkness – up to 40 days
- 95dB Piezo Siren
- 3 minutes alarm duration limiter (optional)
- Siren Disable (selectable)
- Dual front and rear anti-tamper protection
- Jamming Detection
- Audible confirmation

Remote Control



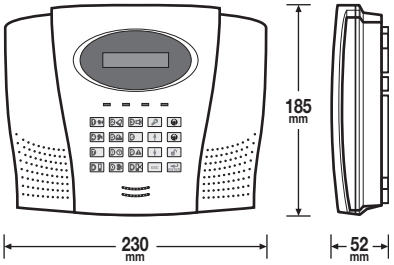
- RF operating frequency: 433MHz
- Range: 50 metre max.
- Personal Attack (PA) switch
- Operates all ARM, PART-ARM and DISARM functions
- Transmission indicator
- Battery life > 1 year
- Low battery indicator

Keypad



- RF operating frequency: 433MHz
- Range: 50 metre max.
- Changeable 4 digit User Access code.
- Anti-Tamper protected
- Personal Attack (PA) facility
- Battery Life > 1 year
- Low Battery Indicator

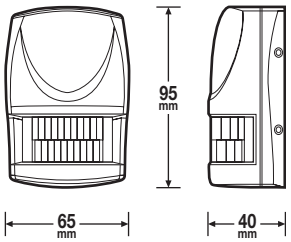
Control Panel



- RF operating frequency: 433MHz
- Range: 50 metre max.
- Battery back-up
- Detector Low-Battery Status Indication
- RF Jamming Detection
- 90dB Piezo Siren
- Dual front and rear anti-tamper
- 6 Users + Master User
- 4 digit User Access Code
- 6 Wirefree Zones + 4 Wired zones
- 2 Part-Arm Facilities
- Independently programmable Entry and Exit delays.
- Entry/Exit Delay Warning (selectable)
- Programmable Alarm Duration
- Auto Reset
- Omit Zones
- Quick Set and Final Exit Set
- Walk Through Zones
- Zone lockout
- Chime
- Event Log (50 events)
- Digital Answerphone & Voice-Memo
- Latch Key
- Remote Phone Access & System Control
- Listen-In facility.
- Front & Rear Anti-Tamper protection
- Personal Attack (PA) facility
- Telephone Voice Dialler
- Remote Security Manager interface

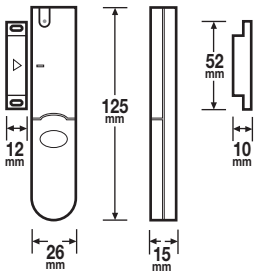
Connections for Hardwired Siren

PIR Red Movement Detector



- RF operating frequency: 433MHz
- Range: 75 metre max.
- Detection range: up to 12 metres at 110°
- Walk test facility
- LOW/HIGH Detection Sensitivity
- Anti-Tamper protected
- Corner or surface mount
- Battery Life > 1 year
- Low Battery Indicator

Magnetic Contact Detector



- RF operating frequency: 433MHz
- Range: 75 metre max.
- Test Mode
- Anti-Tamper protection
- Facility to connect additional wired Magnetic Contact
- Battery Life >1 year

Low Battery Indicator

RESEARCH & DEVELOPMENT

Our R & D Department is constantly developing new products. We practice a policy of continued improvement and reserve the right to change specifications without prior notice.

Novar Electrical Devices and Systems are Quality Assurance Registered to BS EN ISO9001 2000, by Asta

HELPLINE

If you have any problems with your alarm, please call the Helpline on:

01268 563273

(Lines open 9.00am to 5.00pm, Monday to Friday)

Novar Electrical Devices and Systems are Quality Assurance Registered to BS EN ISO9001 : 2000, by Asta.

CE

Friedland, Novar Electrical Devices and Systems.
The Arnold Centre, Paycocke Road, Basildon, Essex SS14 3EA. UK.

45173PL Ed.3